Macmillan McGraw-Hill

Math Connects 3

Chapter 3 Resource Masters

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Teacher's Guide to Using the *Chapter 3 Resource Masters*

The *Chapter 3 Resource Masters* includes the core materials needed for Chapter 3. These materials include worksheets, extensions, and assessment options. The answers for these pages appear at the back of this booklet.

All of the materials found in this booklet are included for viewing and printing on the *TeacherWorks Plus*™ CD-ROM.

Chapter Resources

Graphic Organizer (page 1) This master is a tool designed to assist students with comprehension of grade-level concepts. While the content and layout of these tools vary, their goal is to assist students by providing a visual representation from which they can learn new concepts.

Student Glossary (page 2) This master is a study tool that presents the key vocabulary terms from the chapter. You may suggest that students highlight or star the terms they do not understand. Give this list to students before beginning Lesson 3–1. Remind them to add these pages to their mathematics study notebooks.

Anticipation Guide (page 6) This master is a survey designed for use before beginning the chapter. You can use this survey to highlight what students may or may not know about the concepts in the chapter. There is space for recording how well students answer the questions before they complete the chapter. You may find it helpful to interview students a second time, after completing the chapter, to determine their progress.

Game (page 7) A game is provided to reinforce chapter concepts and may be used at appropriate times throughout the chapter.

Resources for Computational Lessons

Reteach Each lesson has an associated Reteach worksheet. In general, the Reteach worksheet focuses on the same lesson content but uses a different approach, learning style, or modality than that used in the Student Edition. The Reteach worksheet closes with computational practice of the concept.

Skills Practice The Skills Practice worksheet for each lesson focuses on the computational aspect of the lesson. The Skills Practice worksheet may be helpful in providing additional practice of the skill taught in the lesson.

Homework Practice The Homework Practice worksheet provides an opportunity for additional computational practice. The Homework Practice worksheet includes word problems that address the skill taught in the lesson.

Problem-Solving Practice The Problem-Solving Practice worksheet presents additional reinforcement in solving word problems that apply both the concepts of the lesson and some review concepts.

Enrich The Enrich worksheet presents activities that extend the concepts of the lesson. Some Enrich materials are designed to widen students' perspectives on the mathematics they are learning. These worksheets are written for use with all levels of students.

Resources for Problem-Solving Strategy and Problem-Solving Investigation Lessons In recognition of the importance of problem-solving strategies, worksheets for problem-solving lessons follow a slightly different format. For problem-solving lessons, a two-page Reteach worksheet offers a complete model for choosing a problem-solving strategy. For each Problem-Solving Strategy lesson, Reteach and Homework Practice worksheets offer reinforcement of the strategy taught in the Student Edition lesson. In contrast, the Problem-Solving

Investigation worksheets include a model strategy on the Reteach worksheets and provide problems requiring several alternate strategies on the Homework Practice and Skills Practice worksheets.

Assessment Options The assessment masters in the *Chapter 3 Resource Masters* offer a wide variety of assessment tools for monitoring progress as well as final assessment.

Individual Progress Checklist This checklist explains the chapter's goals or objectives. Teachers can record whether a student's mastery of each objective is beginning (B), developing (D), or mastered (M). The checklist includes space to record notes to parents as well as other pertinent observations.

Chapter Diagnostic Test This one-page test assesses students' grasp of skills that are needed for success in the chapter.

Chapter Pretest This one-page quick check of the chapter's concepts is useful for determining pacing. Performance on the pretest can help you determine which concepts can be covered quickly and which specific concepts may need additional time.

Mid-Chapter Test This one-page chapter test provides an option to assess the first half of the chapter. It includes both multiple-choice and free-response questions.

Quizzes Three free-response quizzes offer quick assessment opportunities at appropriate intervals in the chapter.

Vocabulary Test This one-page test focuses on chapter vocabulary. It is suitable for all students. It includes a list of vocabulary words and questions to assess students' knowledge of the words.

Oral Assessment This two-page test consists of one page for teacher directions and questions and a second page for recording responses. Although this assessment is designed to be used with all students, the interview format focuses on assessing chapter content assimilated by ELL students.

Chapter Project Rubric This one-page rubric is designed for use in assessing the chapter project. You may want to distribute copies of the rubric when you assign the project and use the rubric to record each student's chapter project score.

Chapters Foldables Rubric This one-page rubric is designed to assess the Foldables graphic organizer. The rubric is written to the students, telling them what you will be looking for as you evaluate their completed Foldables graphic organizer.

Leveled Chapter Tests

- **Form 1** assesses basic chapter concepts through multiple-choice questions and is designed for use with on-level students.
- **Form 2A** is designed for on-level students and is primarily for those who may have missed the Form 1 test. It may be used as a retest for students who received additional instruction following the Form 1 test.
- **Form 2B** is designed for students with a below-level command of the English language.
- **Form 2C** is a free-response test designed for on-level students.
- **Form 2D** is written for students with a below-level command of the English language.
- **Form 3** is a free-response test written for above-level students.
- **Extended-Response Test** is an extended response test for on-level students.

Cumulative Test Practice This three-page test, aimed at on-level students, offers multiple-choice questions and free-response questions.

Student Recording Sheet this one-page recording sheet is for the cumulative test practice in the Student Edition.

Answers

The answers for the Anticipation Guide and Lesson Resources are provided as reduced pages with answers appearing in black. Full size line-up answer keys are provided for the Assessment Masters.

Name _____ Date _____

Graphic Organizer

Use this graphic organizer to take notes on **Chapter 3: Subtract to Solve Problems**. Fill in the missing information.

Term	Definition	Examples
difference		
estimate		
compatible numbers		
regroup		
subtraction		

Name _____ Date _____

3

Student-Built Glossary

This is an alphabetical list of new and review vocabulary terms you will learn and use in **Chapter 3: Subtract to Solve Problems.** As you study the chapter, complete each term's definition or description. Remember to add the page number where you found the term. Add this page to your math study notebook to review vocabulary at the end of the chapter.

Vocabulary Term	Found on Page	Definition/Description/Example
compatible numbers		
difference		
estimate		
regroup		
subtraction		

Name _____ Date _____

Student-Built Glossary *(continued)*

is equal to		
is greater than		
is less than		
number sentence		

MATH at HOME

Dear Family,

Today my class started **Chapter 3: Subtract to Solve Problems**. I will be learning how to subtract large numbers and how to estimate differences. Here are my vocabulary words and an activity that we can do together.

Love, _____

Key Vocabulary

difference The answer in a subtraction problem.

regroup To take apart a number to write it in a new way.

Activity

Fill a container with small objects (pennies, buttons). Write down the amount of items in the container. Then, fill another container with other small objects (popcorn kernels, beads). Do not fill this container as full as the first. Write down the amount of items in the second container. Keep the amounts hidden and ask a family member to guess the amount of objects in each container. Write down their guesses. Round each guess to the closest ten and subtract the amounts. Compare this number to the actual difference in objects.

Books to Read

Subtraction Action
by Loreen Leedy

Hannah's Collections
by Marthe Jocelyn

Alice in Pastaland
by Alexandra Wright

MATEMÁTICAS en CASA

Estimada familia:

Hoy mi clase comenzó el **Capítulo 3: Resta para resolver problemas**. Aprenderé cómo usar la resta todos los días y también aprenderé a restar números grandes y a estimar diferencias. A continuación, están mis palabras de vocabulario y una actividad que podemos hacer juntos.

Cariños, _____

Vocabulario clave

diferencia Respuesta a un problema de resta.

reagrupar Separar un número para escribirlo de una nueva forma

Actividad

Llenen un envase con objetos pequeños (monedas de 1¢, botones, clips). Escriban la cantidad de objetos en el envase. Luego, llenen otro envase con otros objetos pequeños (maíz para palomitas, caramelos, cuentas). No llenen este último envase tanto como el primero. Anoten el número de objetos en el segundo envase. Mantengan las cantidades escondidas y pídanle a un miembro de la familia que adivine la cantidad de objetos en cada envase. Anoten lo que adivine el miembro de la familia. Redondeen cada estimación a la decena más cercana y resten las cantidades. Comparen este número con la diferencia real de objetos.

Libros recomendados:

La acción de la sustracción
de Loreen Leedy

Las colecciones de Hannah
de Marthe Jocelyn

Alicia en el país de los tallarines
de Alexandra Wright

Name _____ Date _____

3

Anticipation Guide

Subtract to Solve Problems

STEP 1 ***Before you begin Chapter 3***

- Read each statement.
- Decide whether you agree (A) or disagree (D) with the statement.
- Write A or D in the first column OR if you are not sure whether you agree or disagree, write NS (not sure).

STEP 1 A, D, or NS	Statement	STEP 2 A or D
	1. Difference is the answer to an addition problem.	
	2. Using estimation, the difference between 97¢ and 66¢ is about 30¢.	
	3. Cents can be written using the cents sign (¢) or the dollar sign ($).	
	4. When the number to be rounded is 5, always round up.	
	5. There is only one method of estimation.	
	6. Using models can help you to understand how to regroup tens and hundreds.	
	7. You do not need to line up the digits in the ones place when you are subtracting large numbers.	
	8. Some time when you subtract you have to regroup more than onetime.	
	9. Words within a problem can help you decide whether to add or subtract.	

STEP 2 ***After you complete Chapter 3***

- Reread each statement and complete the last column by entering an A (agree) or a D (disagree).
- Did any of your opinions about the statements change from the first column?
- For those statements that you mark with a D, use a separate sheet of paper to explain why you disagree. Use examples, if possible.

Name _____ Date _____

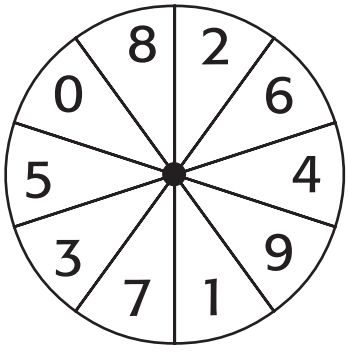
Chapter 3 Game

ROUNDED DIFFERENCES

Ready

You will need:

- Paper clip and pencil
- paper and pencil



Set

Place the pencil with the paper clip in the center of the spinner shown above. Spin the paper clip to generate digits for four-digit numbers.

GO!

1. Take turns spinning the pencil 4 times for each player and writing the digits left to right in the order the numbers occur.

2. Compare the numbers and find the difference. The player with the greater number rounds the difference to the nearest hundred and gets that number as a score.

3. Play the game 2 more times. The player with the higher score wins.

Name _____ Date _____

3–1

Reteach

Two-Digit Subtraction

When you want to compare numbers, you subtract.

Find 16 − 3.

Step 1	Model 16.	
	16	Subtract the **ones**.
	− 3	6 ones − 3 ones = 3 ones
Step 2	16	Subtract the **tens**.
	− 3	1 tens − 0 tens = 1 ten.
	13	So, 16 − 3 = 13.

When there are not enough ones to subtract from, you need to regroup.

Find 14 − 8.

Step 1	Model 14.	
	14	Subtract the **ones**.
	− 8	8 ones > 4 ones, so regroup.
Step 2	Regroup 1 tens into 10 ones.	
	14	10 ones + 4 ones = 14 ones
	− 8	Subtract. 14 ones − 8 ones = 6 ones
	6	
Step 3	Subtract the **tens**.	
	14	0 tens − no tens = 0 tens
	− 8	
	06	So, 14 − 8 = 6.

Subtract. Use models if needed. Check your answer.

1. 37 − 3 = ____

2. 49 − 7 = ____

3. 82 − 9 = ____

4. 31 − 6 = ____

5. 77 − 8 = ____

6. 63 − 9 = ____

7. 54 − 3 = ____

8. 22 − 1 = ____

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Name _____ Date _____

3–1

Skills Practice

Two-Digit Subtraction

Subtract. Use models if needed. Check your answer.

1. 68 − 9 = _____

2. 33 − 23 = _____

3. 75 − 6 = _____

4. 49 − 9 = _____

5. 22 − 3 = _____

6. 66 − 15 = _____

7. 85 − 3 = _____

8. 11 − 7 = _____

9. 37 − 28 = _____

10. 90 − 22 = _____

11. 55 − 6 = _____

12. 30 − 24 = _____

13. 17 − 13 = _____

14. 82 − 23 = _____

15. 47 − 8 = _____

16. 90 − 3 = _____

17. Tess has 42 jars of paint. She gave 13 jars to Penny and 15 jars to John. How many were left for herself?

_____

18. Retta is 43 inches tall. Her brother is 52 inches tall. What is the difference in their heights?

_____

19. Kiyo had $21 when she went to the shopping center. On her trip, she purchased a new alarm clock. If she returned home with $8, how much was the alarm clock?

_____

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Name _____ Date _____

3–1

Homework Practice

Two-Digit Subtraction

Subtract. Use models if needed. Check your answer.

1. 25 − 3 = _____

2. 37 − 5 = _____

3. 49 − 8 = _____

4. 52 − 6 = _____

5. 67 − 8 = _____

6. 83 − 9 = _____

7. 39 − 17 = _____

8. 45 − 21 = _____

9. 64 − 32 = _____

10. 56 − 38 = _____

11. 75 − 26 = _____

12. 91 − 33 = _____

13. 15 − 4 = _____

14. 28 − 6 = _____

15. 38 − 2 = _____

16. 35 − 8 = _____

17. 62 − 7 = _____

18. 84 − 6 = _____

19. 48 − 22 = _____

20. 56 − 34 = _____

21. 67 − 58 = _____

22. 71 − 19 = _____

23. 83 − 45 = _____

24. 95 − 56 = _____

25. John's mother made 24 muffins. John and his friends ate 6 muffins after school. How many muffins were left? _____

26. Rebecca has 17 pairs of socks. 9 pairs are white. How many pairs are not white? _____

Spiral Review

Find each sum. Use models if needed. (Lesson 2-8)

27. 445 + 338 = _____

28. $599 + $276 = _____

29. 762 + 354 = _____

30. $390 + $190 = _____

31. 444 + 888 = _____

32. $622 + $911 = _____

33. 232 + 330 = _____

34. $303 + $399 = _____

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Name _____ Date _____

3–1

Problem-Solving Practice

Two-Digit Subtraction

1. Kelly has 27 cousins. Twelve of the cousins are boys. How many cousins are girls?

_____

2. Jeremy has collected 61 baseball caps from college and professional teams. Fifteen of the caps are from college teams. How many caps are from professional teams?

_____

3. Maria's swimming class will meet 50 times this year. She has already been to swimming class 34 times. How many more swimming classes does Maria have left this year?

_____

4. It takes Dylan 47 minutes to get to his friend's house. He left his home 18 minutes ago. How many more minutes will it take to get to his friend's house?

_____

5. Vanessa found 87 coins on the sidewalk. She gave 15 to her sister and 16 to her friend. How many coins does Vanessa have left?

_____

6. Brandon had 75 math problems for homework. He did 12 at school. He did 10 when he got home. How many problems does Brandon still need to finish?

_____

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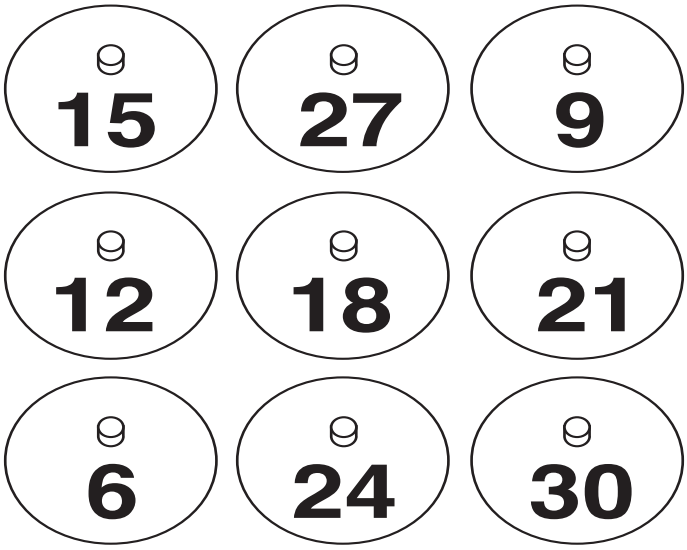
Name _____ Date _____

3–1

Enrich

Ring Toss

Solve each word problem. Numbers can be ringed only once.



1. Byron threw two rings. The difference between the numbers is 12. The lesser number is 15. What is the greater number?

_____

2. Jennifer threw two rings. The difference between the numbers is 6. The lesser number is greater than 21. What two numbers did Jennifer ring?

_____ and _____

3. Adam threw two rings. The difference between the numbers is 3. The greater number is even and less than 21. The lesser number is more than 9. What two numbers did Adam ring?

_____ and _____

4. Randi threw two bean bags. The difference between the numbers is 15. One of the numbers is not a 12, 9 or 6. What two numbers did Randi ring?

_____ and _____

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3–2

Name _____ Date _____

Reteach

Estimate Differences

To estimate a difference, round each number and then subtract.

Round to the nearest **ten.**	Round to the nearest **hundred.**	Round to the nearest **thousand.**
51 − 27 ↓ ↓ 50 − 30 = 20	913 − 496 ↓ ↓ 900 − 500 = 400	2,634 − 1,807 ↓ ↓ 3,000 − 2,000 = 1,000

Estimate each difference. Show how you rounded.

1. 91 − 38
↓ ↓
_____ − _____ = _____

2. 685 − 193
↓ ↓
_____ − _____ = _____

3. 809 − 485
↓ ↓
_____ − _____ = _____

4. 1,886 − 1,050
↓ ↓
_____ − _____ = _____

5. 7,801 − 4,118
↓ ↓
_____ − _____ = _____

6. 9,111 − 5,138
↓ ↓
_____ − _____ = _____

Estimate each difference.

7. 63 − 28 _____

8. 82 − 69 _____

9. 850 − 291 _____

10. 635 − 119 _____

11. 709 − 371 _____

12. 545 − 172 _____

13. 9,024 − 1,915 _____

14. 7,070 − 5,885 _____

15. 4,671 − 2,119 _____

16. 6,401 − 4,229 _____

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Name _____ Date _____

3–2

Skills Practice

Estimate Differences

Estimate. Round to the nearest ten or hundred.

1. 73 − 27 _____

2. 91 − 65 _____

3. 685 − 193 _____

4. 947 − 831 _____

5. 45 − 19 _____

6. 54 − 38 _____

7. 615 − 315 _____

8. 725 − 199 _____

9. 981 − 350 _____

10. 862 − 98 _____

11. 219 − 98 _____

12. 550 − 95 _____

13. 703 − 376 _____

14. 902 − 829 _____

15. 1,709 − 888 _____

16. 7,233 − 999 _____

17. 1,590 − 690 _____

18. 9,031 − 1,786 _____

19. 58 − 27 _____

20. 92 − 18 _____

21. 168 − 79 _____

22. 705 − 280 _____

23. 932 − 239 _____

24. 850 − 176 _____

25. 48 − 27 _____

26. 650 − 403 _____

Solve.

27. A sugar maple tree is 72 feet tall. A pecan tree is 111 feet tall. About how much taller is the pecan tree?

_____

28. A ponderosa pine tree is 143 feet tall. It is 89 feet taller than a red juniper tree. About how tall is the red juniper tree?

_____

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Name _____ Date _____

3–2 Homework Practice

Estimate Differences

Estimate each difference using rounding.

1. 57 − 22

2. 177 − 63

3. $450 − $127

Estimate each difference using compatible numbers.

4. 68 − 22 _____

5. $487 − $219 _____

6. 215 − 92 _____

7. 223 − 145

8. $835 − $462

9. 742¢ − 358¢

10. Colin wants to buy a CD for $12 and a book for $4. About how much money does he need? _____

11. Shannon's scout troop sold 357 boxes of cookies last week. They started with 600 boxes to sell. About how many boxes do they have left to sell? _____

Spiral Review

Subtract. (Lesson 3–1)

12. 32 − 1

13. 34 − 12

14. 43 − 8

15. 48 − 35

16. 58 − 9

17. 50 − 27

18. 62 − 8

19. 64 − 39

20. David scored 25 points in his basketball game. Seven of his points were from free throws. The rest were goals from the field. How many points were from the field? _____

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Name _____ Date _____

3–2

Problem-Solving Practice

Estimate Differences

Use estimation to solve.

1. A basketball coach won 132 games. He won 79 more games than he lost. About how many games did he lose?

about _____ games

2. The bleachers in the gym can seat about 289 people. If there are 191 people in the gym, about how many more people can fit in the bleachers?

about _____ more

3. The Chase Tower in Houston, Texas, is 1,002 feet tall. It is 499 feet taller than the Huntington Building. About how tall is the Huntington Building?

about _____ feet tall

4. Arco Company has $8,050 to spend on office equipment. The company bought a computer for $2,885, a copy machine for $485, and a video camera for $1,005. If the company buys another computer, about how much will be left in the budget?

about $ _____

5. Mr. Frasier has $875 in his savings account and $989 in his checking account. Mr. Willis has $1,289 in his savings account and $497 in his checking account. Who has more money in all?

_____

About how much more?

about $ _____ more

6. The Bank One Center in Dallas is 787 feet tall. It is 304 feet taller than the Harwood Center. Is the Harwood Center greater than or less than 500 feet tall?

_____ than 500 feet tall

Explain your answer.

_____

_____

_____

_____

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Name _____ Date _____

3–2

Enrich

All About Bill and Jill

Bill and Jill estimate in two different ways. Bill rounds up or down to the nearest ten, hundred, or thousand. Jill uses front-end estimation. She looks at the digit that has the highest place value in a number.

For example, Bill rounds 75 to 80 when rounding to the nearest ten. Jill rounds 75 to 70 by using the digit at the front end of the number. She rounds to the tens place, which has a 7.

Round and estimate the following numbers the way Bill and Jill would. Then complete the subtraction problems.

1. Round to the nearest **ten**.

94 – 56
↓ ↓

Bill

Jill

2. Round to the nearest **hundred**.

374 – 294
↓ ↓

Bill

Jill

3. Round to the nearest **ten**.

736 – 92
↓ ↓

Bill

Jill

4. Round to the nearest **thousand**.

4,598 – 2,874
↓ ↓

Bill

Jill

5. Round to the nearest ten, and then to the nearest hundred. In which way would Bill and Jill come up with the same answer?

7,506 – 932
↓ ↓

Bill _____

Jill _____

_____

_____

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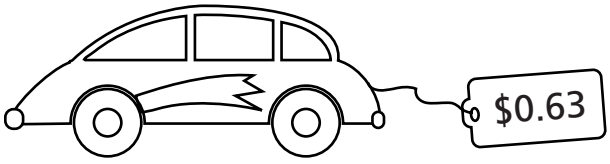
Name _____ Date _____

3–3

Reteach

Subtract Money

You can count up to make change. Start with the cost. Then count up from the coin or bill with the least value to the coin or bill with the greatest value. Stop counting when you reach the amount given.



Cost: 63¢ **Amount given:** $1

Count up: 63¢ 64¢ 65¢ 75¢ $1 The change is 37¢.

Find the difference by counting up.

1. Cost: 87¢ Amount given: $1

Count up: _____

The change is _____ .

2. Cost: 35¢ Amount given: 75¢

Count up: _____

The change is _____ .

3. Cost: $2 Amount given: $10

Count up: _____

The change is _____ .

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Name _____ Date _____

Skills Practice

Subtract Money

Subtract. Use models if needed.

1. 89¢
− 35¢

2. $46
− $18

3. $83
− $42

4. 30¢
− 11¢

5. 62¢
− 25¢

6. $75
− $14

7. $458
− $ 29

8. $60
− $37

Solve.

9. Ross buys a game for $6. He gives the cashier $10. How much change does he get?

_____

10. Tawana buys a puzzle for $4. The cashier gives her $2 in change. How much did she give the cashier?

_____

11. Annie bought a new shirt and paid with a $20-bill. The cashier gave Annie $2 in change. How much did the shirt cost?

_____

12. Howard bought two sandwiches for $5 each. He gave the cashier two $5-bills. How much change did he get?

_____

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Name _____ Date _____

3–3

Homework Practice

Subtract Money

Subtract. Use models if needed. Check your answer.

1. 38¢ − 3¢

2. 84¢ − 53¢

3. $95 − $42

4. 17¢ − 9¢

5. 60¢ −45¢

6. 89¢ −54¢

7. $67 − $50

8. $83 − $22

9. 83¢ − 21¢ _____

10. 72¢ − 35¢ _____

11. $45 – $25 _____

12. $68 − $20 _____

13. $32 – $16 _____

14. $50 − $28 _____

15. $43 – $12 _____

16. $96 – $75 _____

17. $80 – $68 _____

18. Joe has saved $25. He buys a CD for $16. How much money will he have left? _____

19. Courtney's sister has $27 to buy dinner for her and her sister. Courtney's dinner is $8. Her sister's dinner is $9. How much money does Courtney's sister have left? _____

Spiral Review

Estimate each difference using rounding. (Lesson 3–2)

20. 28 − 17 _____

21. 257 − 81 _____

22. $4.77 − $2.21 _____

Estimate each difference using compatible numbers.

23. 53 − 24 _____

24. 346 − 78 _____

25. $8.48 − $0.97 _____

26. 465 − 242 _____

27. 525 − 377 _____

28. $619 − $337 _____

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3–3

Problem-Solving Practice

Subtract Money

Solve.

1. Mr. Smith sold a 504 fruit bar to Molly. She gave him a $1-bill. How much change should Molly get?

_____

2. Suppose you buy a book and get $1.57 in change. What bills and coins could the change be?

_____

3. Amelia bought a $3 magazine and paid with a $10-bill. How much change does she get back?

_____

4. Marisa paid for a board game with a $10-bill. She received $2 in change. How much did the board game cost?

_____

5. Leandro pays for his textbook with a $20-bill. He gets back $1.

How much did his textbook cost?

_____

6. Josh sold a CD to Vera for $6. Vera gave Josh a $10-bill for the CD. How much change does he owe her?

_____

7. Meredith earned $15 last week helping Mrs. Yen weed her garden. Meredith earned $18 this week helping Mr. Hunt in his garden. How much more did Meredith earn this week?

_____

8. Chuck's allowance is $25 a month. If he spends $12 on comic books and snacks this month, how much of his allowance does he save?

_____

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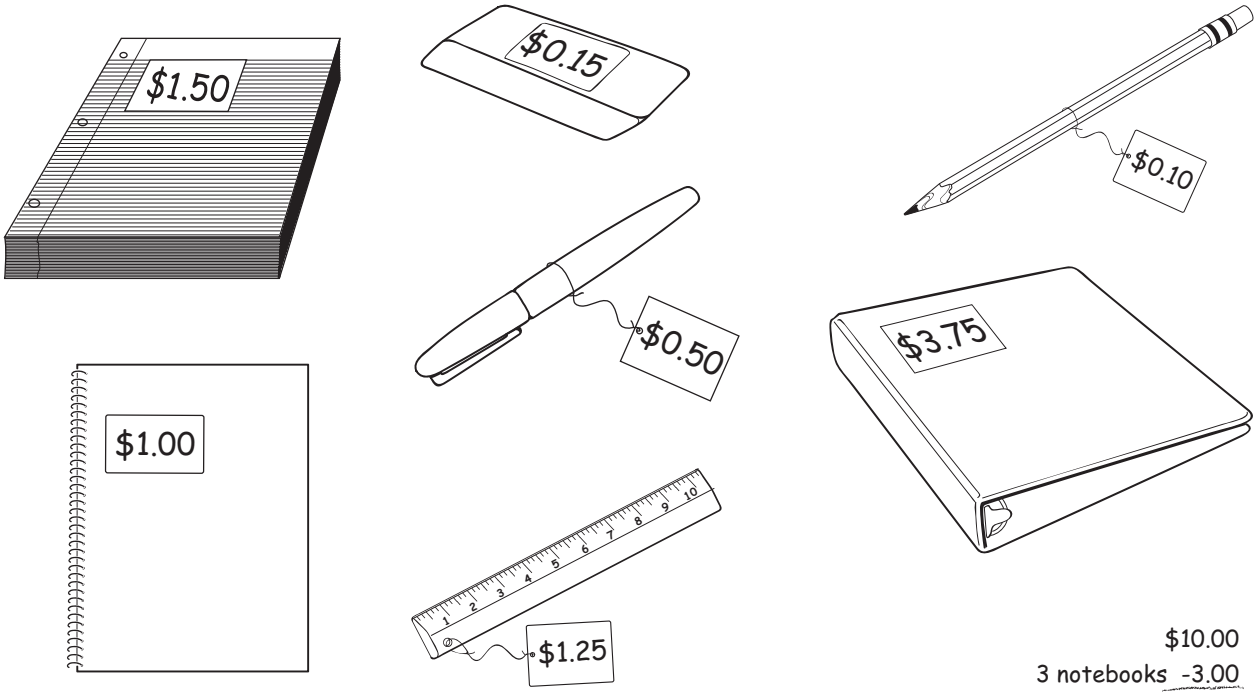
3–3

Enrich

Shopping for School Supplies



Jennifer had $10 to buy school supplies. To keep track of what she spent, she subtracted the cost of each item as she put it in her basket. She kept subtracting prices from her total so that each time she subtracted, she got a new total. First, she put 3 spiral notebooks and 6 pencils in her basket. Then she put in an eraser and a packet of notebook paper. She then bought three more items. After shopping, she did not have any money left. What three items did she purchase?

$10.00
3 notebooks -3.00
$7.00
6 pencils -0.60
$6.40
Eraser -
Notebook paper -
1. _____ -
2. _____ -
3. _____ -
$0.00

_____

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Reteach

Problem-Solving Skill: Reasonable Answers

After you solve a problem, it is important to check if your answer makes sense. One way to check if your answer is reasonable is to use estimates.

Use this exercise to learn more about checking whether an answer is reasonable.

Jorge has 243 baseball cards, and 198 cards are infielders. Jorge thinks he has about 50 outfielder cards. Is this reasonable?

Understand	You know there are 243 cards. You know that 198 cards are infielder cards. You need to find out if 50 outfielder cards is a reasonable answer.
Plan	Choose a strategy. You are finding part of a group. You will estimate and subtract to find about how many cards are left. You will also subtract to find the exact answer.
Solve	First, estimate by rounding to the nearest 10. $243 - 198$ turns into $240 - 200 = 40$ Then subtract. $243 - 198 = 45$
Check	Look back at the problem. Jorge's guess was that he had 50 outfielder cards. That is close to the estimate of 40. Jorge's guess is reasonable. Also check your answer by working the problem backwards: $45 + 198 = 243$ Since 243 is the number you started your subtraction with, your answer is correct.

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Problem-Solving Skill (continued)

Solve. Check for reasonableness.

1. Angel's family is having dinner. The pizza delivery will cost $9. Angel has one $20 bill to pay for the pizza. Is it reasonable for Angel to expect about $10 in change from the delivery person? _____

Explain.

_____

2. Vanessa kicked the soccer ball at the goal 117 times yesterday. She kicked the ball 112 times today. Is it reasonable for Vanessa to say that she kicked the ball about 300 times? _____

Explain.

_____

3. Adrian estimates that he will need to bring 90 cookies for the third-grade picnic. There are 32 students in room 1, 31 students in room 2, and 31 students in room 3. Is 90 cookies a reasonable estimate? _____

Explain.

_____

4. Holly wants to buy her 3 favorite songs. They cost $2, $1, and $3. She estimates that she will need $5 to buy the 3 songs. Is this a reasonable estimate? _____

Explain.

_____

_____

5. Greg read 10 books last week and 12 books this week. Is it a reasonable estimate to say that he read 20 books? _____

Explain.

_____

6. Jacqueline wants to buy a book and a CD. The book is $4. The CD is $12. She estimates $15 will be enough money. Is this a reasonable estimate? _____

Explain.

_____

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Name _____ Date _____

3–4

Skills Practice

Problem-Solving Skill: Reasonable Answers

Solve. Check for reasonableness.

1. On Monday 321 people came for a craft show. On Tuesday 619 people came. Is it reasonable to say about 300 more people came to the craft show on Tuesday? _____

Explain. _____

_____

2. Seth's class took a poll to find out what weekend activities people enjoy. The table below shows their answers.

playground	8
movie	4
friend over	12
be with family	8

Seth estimated that about half his class likes to spend time with their families. Is this reasonable? _____

Explain. _____

3. Using Seth's class poll, is it reasonable to say that most of the class likes to have friends over or spend time with family? _____

Explain. _____

4. Dominique called her grandmother 17 times in July. She estimates that she called about half the days in July. Is this reasonable? _____

Explain. _____

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Homework Practice

Problem-Solving Skill: Reasonable Answers

Solve. Check for reasonableness.

1. This weekend Emily drew 4 pictures for her friend. Then she drew 3 pictures for her grandmother and 2 pictures for her brother. She said she drew about 10 pictures. Is this reasonable? _____

Explain. _____

_____

2. Elizabeth has 13 yarn bracelets. She wants to have 20. She estimates she will need to make about 10 bracelets. Is this reasonable? _____

Explain. _____

_____

3. Megan and Daniel have a bag of 150 raisins. Megan eats 11 raisins, and Daniel eats 12. They think there are 130 raisins left in the bag. Is 130 a reasonable estimate? _____

Explain. _____

_____

Spiral Review

Subtract. (Lesson 3–3)

4. 71¢ − 54¢

5. $357 − $ 24

6. $629 − $540

7. $724 − $432

8. 64 − 33 _____

9. 77 − 51 _____

10. 52¢ − 37¢ _____

11. $81 − $35 _____

12. $721 − $336 _____

13. $131 − $65 _____

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Enrich

Find the Missing Digits

Use what you know about addition and subtraction fact families to find the missing digits. You may need to regroup.

1.
$$\begin{array}{r} 4\,\square\,6 \\ -\,2\,8\,\square \\ \hline \square\,4\,3 \end{array}$$

2.
$$\begin{array}{r} \square\,0\,7 \\ -\,3\,\square\,5 \\ \hline 2\,9\,\square \end{array}$$

3. Explain how you could solve these kinds of problems when there are digits missing.

(7) + [5] = 12 _____

(7) − [5] = 2 _____

Write a number inside each shape to make each number sentence true.

4. ◯ + □ = 15
◯ − □ = 5

5. △ + ◯ = 17
△ − ◯ = 9

6. □ + △ = 79
□ − △ = 33

7. ◯ + □ = 419
◯ − □ = 215

8. Why must the order of the shapes be the same when solving both the addition and subtraction problems?

_____

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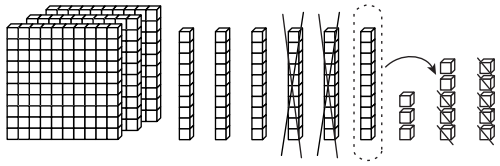
3–5

Reteach

Subtract Three-Digit Numbers with Regrouping

You can use models to help you regroup when you subtract.



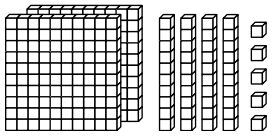
$$\begin{array}{r} {}^{5}\not{3}\,{}^{13}\not{6}\not{3} \\ -\ 28 \\ \hline 335 \end{array}$$

Remember:

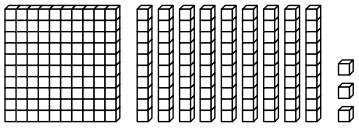
- Regroup 1 ten as 10 ones.
- Rename 63 as 5 tens 13 ones.

Use models to subtract.

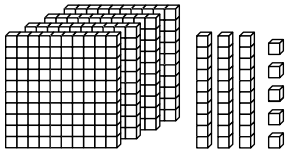
1. 245 − 19 = _____



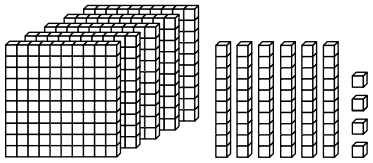
2. 193 − 44 = _____



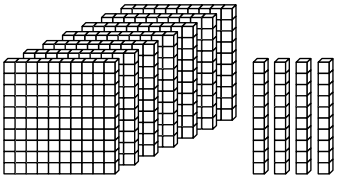
3. 435 − 219 = _____



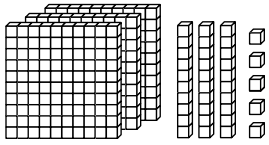
4. 564 − 228 = _____



5. 740 − 426 = _____



6. 335 − 127 = _____



Subtract. Check your answer.

7. 962 − 722 = _____ **8.** 681 − 361 = _____ **9.** 750 − 136 = _____

10. 435 − 219 = _____ **11.** 865 − 839 = _____ **12.** 942 − 927 = _____

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Skills Practice

Subtract Three-Digit Numbers with Regrouping

Subtract. Check your answer.

1. 597 − 318 = _____

2. 270 − 121 = _____

3. 464 − 128 = _____

4. 743 − 206 = _____

5. 632 − 427 = _____

6. 560 − 335 = _____

7. 823 − 426 = _____

8. 936 − 319 = _____

9. 448 − 329 = _____

10. 840 − 321 = _____

ALGEBRA Find each missing digit.

11.
$$\begin{array}{r} 51\square \\ -\ 31\square \\ \hline 19\square \end{array}$$

12.
$$\begin{array}{r} \square 32 \\ -2\square 9 \\ \hline 1\square 3 \end{array}$$

13.
$$\begin{array}{r} \square 11 \\ -\ 22\square \\ \hline 3\square 2 \end{array}$$

14.
$$\begin{array}{r} 74\square \\ -\ 15\square \\ \hline 58\square \end{array}$$

15.
$$\begin{array}{r} 3\square 6 \\ -1\square 8 \\ \hline \square 68 \end{array}$$

16.
$$\begin{array}{r} \square 42 \\ -\ 31\square \\ \hline 12\square \end{array}$$

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Homework Practice

Subtract Three-Digit Numbers with Regrouping

Subtract. Check your answer.

1. 381 − 165

2. 441 − 57

3. $850 − $243

4. $319 − $175

5. 224 − 115 _____

6. 356 − 178 _____

7. 802 − 334 _____

8. $467 − $182 _____

9. $521 − $375 _____

10. $633 − $245 _____

ALGEBRA Find each missing digit.

11. 51□ − 265 = □49

12. 385 − □2□ = 62

13. 4□9 − 112 = □97

14. The bike trail by James's house is 215 yards long. The hiking trail by Hannah's house is 118 yards long. How much longer is the bike trail by James's house? _____

Spiral Review (Lesson 3–4)

15. Pedro made 125 glasses of lemonade to sell at his stand. At the end of the day, there were 19 glasses left. He estimates that he sold about 100 glasses that day. Is this reasonable? _____

Explain. _____

16. Brianna picked up 99 cans cleaning up the park last week with her scout troop. This week they picked up 312. She estimates that the troop picked up about 200 more cans this week. Is this reasonable? _____

Explain. _____

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Problem-Solving Practice

Subtract Three-Digit Numbers with Regrouping

Solve.

1. There were 175 peaches at the fruit stand.

Customers bought 82 of the peaches. How many peaches are left?

_____ peaches

Did you need to regroup ones?

_____ tens? _____

2. Another crate has 272 red and green apples.

There are 123 red apples in the crate. How many apples are green?

_____ green apples

Did you need to regroup ones?

_____ tens? _____

3. Tanisha bought a pack of 225 sheets of paper for her homework.

After a week, she has 198 sheets of paper left. How many sheets of paper did Tanisha use?

_____ sheets

4. The school library would like to raise $915 to buy more books.

So far, the library has raised $475. How much more money does the library need to reach its goal?

_____ more

5. The health food store had 254 granola bars. They sold 85 bars yesterday and another 78 bars today. How many granola bars does the store have left?

_____ granola bars

6. Evan has 85 baseball cards and 129 basketball cards. Alan has 312 football cards. Who has more cards in all?

_____

How many more cards?

_____ more cards

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3–5

Enrich

Feeding the Bears

Brownie is a brown bear and Ben is a black bear. They are rescued bears that live at a wild animal park. Both eat a special mix of vegetables and dry dog food every day. The park starts each week with 800 pounds of food for each animal. Then it keeps track of how much Brownie and Ben eat. Use the chart to help you answer the questions. (Hint: Be sure to use regrouping when you subtract.)

Bears	Food for the Week	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Brownie	800 pounds	92	95	87	88	90	86	93
Ben	800 pounds	80	82	83	85	84	79	79

1. How much more food did Brownie eat than Ben ate from Sunday to Tuesday?

_____

2. How much food did each bear have left after Saturday's feeding?

Brownie had _____

Ben had _____

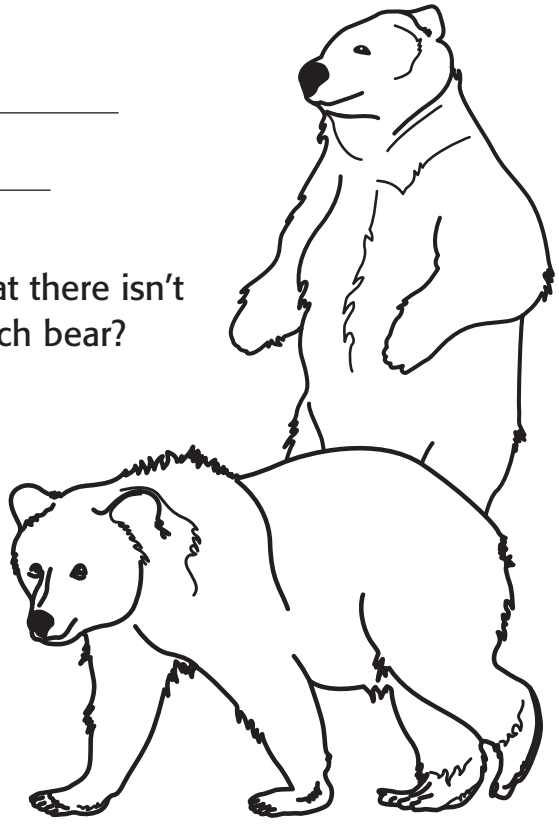
3. The park wants to buy just enough food, so that there isn't any left over. How much food will it buy for each bear?

For Brownie _____ pounds

For Ben _____ pounds

4. What is the difference in the amount the two bears ate by the end of this week?

_____



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3–6

Reteach

Problem-Solving Investigation: Choose a Strategy

Sometimes you can solve a problem using more than one strategy. You must choose the strategy that works best for you when solving the problem.

Use this exercise to learn more about choosing a strategy to solve a problem.

Tristan has $43. If he buys a basket ball for $21, how much money does he have left?

Understand	**What do you know?** • You know Tristan has $43. • You know Tristan spent $21. **What do you need to find?** • You need to find out how much money Tristan has left.
Plan	A four-step plan is a good way to solve many problems. When you read the problem to find out what information you know, circle key facts or words and underline what you need to find out. Since you need to find how much money is left, subtract.
Solve	First take the money Tristan started with: $43 Subtract what he spent: $21 To find what is left: $43 − $21 = $22
Check	Prove your answer: Look at the problem again. Work backward to check: $22 + $21 = $43

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3–6

Reteach

Problem-Solving Investigation (continued)

Practice

Use any strategy shown below to solve. Tell what strategy you used.

- Estimate or an exact answer
- Reasonable answer
- Work backward

1. The animal shelter rescued 57 animals after the storm. Now there are 862 animals at the shelter. How many animals were there before the storm? _____

What strategy did you use? _____

2. Mrs. Connolly hid 115 prizes around the school. She gave her students clues to solve. Her students found 82 prizes. About how many prizes are still missing? _____

What strategy did you use? _____

3. 12 jars of paint come in a box. Trevor saw a sign that says each jar of paint costs $2. How much will the box of paints cost? _____

What strategy did you use? _____

4. Natalie started the day with 178 bags of trail mix. Now she has 50 bags of trail mix left. Is it reasonable to say she gave away about 130 bags of trail mix? _____

What strategy did you use? _____

5. Connor's grandfather gave him 87 baseball cards. Now he has 576 cards. How many cards did he have before his grandfather gave him more cards? _____

What strategy did you use? _____

6. Sabrina has 83¢. She spent 67¢ at the store. How much money does she have left? _____

What strategy did you use? _____

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Name _____ Date _____

3–6

Skills Practice

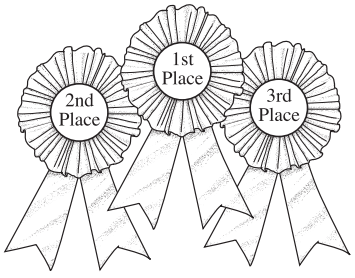
Problem-Solving Investigation: Choose a Strategy

Use any strategy shown below to solve. Tell what strategy you used.

- Estimate or an exact answer
- Reasonable answer
- Work backward

1. Mariah earned 43 ribbons from swim meets this month. Now she has 756 ribbons in all. How many ribbons did she have before this month? _____

What strategy did you use? _____



2. Brad walks up 53 steps to get home. There are 211 steps to the top of his building. How many more steps would Brad have to walk up to get to the top floor? _____

What strategy did you use? _____

3. 12 oranges come in a carton. Nadia saw a sign that says each orange costs 48¢. About how much will a carton cost? _____

What strategy did you use? _____

4. Blake has saved 612 papers since his first day of school. His sister has saved 48 papers so far. About how many more papers has Blake saved? _____

What strategy did you use? _____

5. Mrs. Martinez bought groceries for $47. Then she bought pet food for $26. She thinks she spent about $100. Is this reasonable? _____

What strategy did you use? _____

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3–6

Homework Practice

Problem-Solving Investigation: Choose a Strategy

Use any strategy shown below to solve. Tell what strategy you used.

- Estimate or an exact answer
- Reasonable answer
- Work backward

1. Mark is buying apples. They are 99¢ per pound. He wants to buy 3 pounds. About how much will he spend on apples?

_____

_____

2. Gabriel has 15 baseballs. He used to have 53 baseballs but lost some when he moved. How many baseballs did he lose?

_____

_____

3. Abbie has 287 beans on her plate. Her mother says she must eat until there are only 35 beans left. How many beans must Abbie eat?

_____

_____

Spiral Review

ALGEBRA Find each missing digit. (Lesson 3–5)

4.
$$\begin{array}{r} 42\square \\ -\ 156 \\ \hline \square 65 \end{array}$$

5.
$$\begin{array}{r} 224 \\ -\ \square 6\square \\ \hline 58 \end{array}$$

6.
$$\begin{array}{r} 5\square 6 \\ -\ 321 \\ \hline \square 25 \end{array}$$

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3–6

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Problem-Solving Investigation: Choose a Strategy

There are four boys in the Branch family. The chart below shows how much money each boy earned each week for three weeks.

	Week 1	Week 2	Week 3	Week 4
Brad	$2	$6	$3	
Bart	$4	$3	$1	
Burt	$5	$2	$3	
Brent	$4	$5	$3	

Circle the statement that is reasonable.

1. Burt and Brad are comparing how much money they made over three weeks.
Burt said, "I made about $10 more than Brad."
Brad said, "We both made about the same amount of money."

Explain your thinking: _____

2. Bart and Brent are thinking about how much money Brad made for weeks 2 and 3.
Bart said, "Brad made about $3 less in Week 3 than in Week 2."
Brent said, "Brad made about $2 less in Week 3 than in Week 2."

Explain your thinking: _____

3. Brad and Brent plan to make the same amount of money in Week 4 that Brad made in Week 2. They are thinking about who will have made the most money after four weeks.
Brad says, "I will have made more money."
Brent says, "I will have made more money."

Explain your thinking: _____

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3–7

Reteach

Subtract Greater Numbers

Find 6,426 − 3,278.

Subtract the ones.
Regroup if necessary.
2 tens 6 ones = 1 ten 16 ones

Subtract the tens.
Regroup if necessary.
4 hundreds 1 ten = 3 hundreds 11 tens

Subtract the hundreds and thousands.

Thousands	Hundreds	Tens	Ones
	3	11 ~~1~~	16
6	~~4~~	~~2~~	~~6~~
− 3	2	7	8
3	1	4	8

Subtract. Check each answer.

1. 4,685 − 1,279

2. $9,354 − $1953

3. 6,527 − 432

4. 8,711 − 7,338

5. 6,005 − 5,732

6. $8,832 − $448

7. 4,213 − 2,999

8. $9,595 − $1,396

9. 6,762 − 3,883

10. 9,000 − 457

11. 8,447 − 4,191 = _____

12. $6,229 − $5,337 = _____

13. 8,674 − 482 = _____

14. $1,373 − $998 = _____

15. 7,147 − 2,639 = _____

16. 9,521 − 3,587 = _____

17. 5,010 − 1,999 = _____

18. 6,000 − 2,730 = _____

19. $8,315 − $798 = _____

20. 7,040 − 655 = _____

21. 4,000 − 1,432 = _____

22. $3,208 − $625 = _____

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3–7

Skills Practice

Subtract Greater Numbers

Subtract. Check your answer.

1. 6,387 − 192	**2.** $6,217 − $3,860	**3.** 9,817 − 2,087	**4.** 1,754 − 382	**5.** $3,498 − $2,567
6. 4,891 − 975	**7.** $3,165 − $1,620	**8.** 9,315 − 4,928	**9.** $4,046 − 2,995	**10.** 6,635 − 669
11. 5,602 − 325	**12.** $8,250 − $766	**13.** 3,426 − 2,839	**14.** $5,163 − $3,886	**15.** 7,546 − 787

16. 4,008 − 3,912 = _____

17. $8,270 − $5,092 = _____

18. 5,123 − 987 = _____

19. 7,654 − 6,666 = _____

20. $4,325 − $998 = _____

21. 6,000 − 85 = _____

22. 6,200 − 5,375 = _____

23. $5,052 − $2,448 = _____

ALGEBRA Write + or − to make a true number sentence.

24. 8,734 ◯ 4,292 = 4,442

25. 687 ◯ 474 = 1,161

26. $8,132 ◯ $983 = $9,115

27. 8,225 ◯ 6,334 = 1,891

Solve.

28. On a parade float, there are 3,000 red roses and 1,850 white roses. How many more red roses are there?

_____

29. Of the 4,208 roses on another float, 680 were wilted. How many were not wilted?

_____

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3–7

Homework Practice

Subtract Greater Numbers

Subtract.

1. 1,816 − 429

2. 3,659 − 2,485

3. $4,718 − $1,962

4. 7,613 − 5,549

5. 1,237 − 863 _____

6. 2,689 − 1,156 _____

7. $2,879 − $1,675 _____

8. 3,466 − 2,132 _____

9. $4,768 − $3,021 _____

10. $7,547 − $5,223 _____

11. There are 5,280 feet in a mile. Chloe has already walked 1,753 feet. How much farther does she need to walk to complete a mile?

_____

12. Seth has 2,374 Legos to build with. He used 1,142 to build a car. How many Legos does he have left?

_____

Spiral Review

Use any strategy shown below to solve. Tell what strategy you used. (Lesson 3–6)

13. 15 friends were playing at the park. 2 left to go to soccer practice. 4 left to go home. And 3 more left to go to the library. How many friends are left at the park?

_____ _____

14. Seth's bus brings 37 kids to school. The next bus brings 42. If 118 kids come to school by bus, how many are on the third bus?

_____ _____

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Name _____ Date _____

3–7

Problem-Solving Practice

Subtract Greater Numbers

Solve.

1. A library has 2,220 books about sports and 1,814 books about animals. How many more sports books are there than animal books?

_____ more books

2. At the book sale, Sharika paid for a book with a $5-bill. She got back $3 in change. What was the price of the book?

$ _____

3. In the 2007 NFL season, one receiver rushed for 1,509 yards. Another receiver rushed for 1,139 yards, and a running back rushed for 1,435 yards. How many more yards were rushed by the first receiver than the running back?

_____ more yards

4. Pittsburgh University won the college football championship in 1937. They won again in 1976. How many years were there between championships?

_____ years

5. Jeff bought five tickets to a baseball game. Each ticket cost $12. He paid with $75. How much change should he get back?

$ _____

6. The baseball stadium has 48,500 seats. One week before the game there were still 9,956 seats left. The day of the game there were 4,089 seats left. How many seats were sold during the week before the game?

_____ seats

How many seats were sold by the day of the game?

_____ seats

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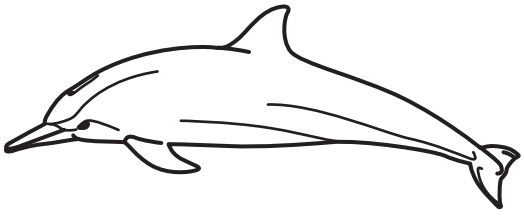
Name _____ Date _____

3–7

Enrich

What Do They Weigh?

Sand and Sea Park is checking the weight of its animals. The chart shows which animals they have. It also shows which ones they have weighed and how many pounds each weighs. The walrus and sea lion have not been weighed. Answer the questions and complete the chart.



Animal	dolphin	harbor seal	killer whale	polar bear	walrus	sea lion
Weight	573	375	8,356	1,342	_____	_____

1. The walrus weighs 5,619 pounds less than the killer whale. How much does it weigh?

_____ pounds

2. The sea lion weighs 610 pounds less than the polar bear. How much does it weigh?

_____ pounds

3. What is the difference in weight between the animal that weighs the least and the animal that weighs the most?

_____ pounds

4. What is the difference in weight between the sea lion and the walrus?

_____ pounds

5. How much more does the sea lion weigh than the dolphin?

_____ pounds

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Name _____ Date _____

3–8

Reteach

Subtract Across Zeros

You can use place-value charts to help you regroup across zeros.

Find 305 − 176.

Step 1
Subtract the ones.
No tens to regroup.
Regroup the hundreds.

Hundreds	Tens	Ones
2 ~~3~~	10 ~~0~~	5
− 1	7	6

Step 2
Regroup the tens.

Hundreds	Tens	Ones
2 ~~3~~	9 ~~10~~ ~~0~~	15 ~~5~~
− 1	7	6

Step 3
Subtract the ones, tens, and hundreds.

Hundreds	Tens	Ones
2 ~~3~~	9 ~~10~~ ~~0~~	15 ~~5~~
− 1	7	6
1	2	9

Subtract. Check your answer.

1. 106 − 28

2. $503 − $167

3. 405 − 218

4. $601 − $378

5. 200 − 145

6. 205 − 92

7. 308 − 175

8. 300 − 56

9. $505 − $90

10. 802 − 132

11. 500 − 418 = _____

12. $206 − $138 = _____

13. 801 − 482 = _____

14. 100 − 33 = _____

15. 607 − 527 = _____

16. $700 − $19 = _____

17. $902 − $863 = _____

18. 400 − 189 = _____

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Name _____ Date _____

3–8

Skills Practice

Subtract Across Zeros

Subtract. Check your answer.

1. 503 − 82	**2.** $607 − $238	**3.** 730 − 467	**4.** 901 − 719	**5.** $309 − $223
6. 208 − 75	**7.** 305 − 161	**8.** 400 − 286	**9.** 504 − 316	**10.** $700 − $199

11. 103 − 45 = _____

12. $901 − $333 = _____

13. 800 − 65 = _____

14. 702 − 618 = _____

15. 205 − 74 = _____

16. 700 − 412 = _____

17. 607 − 31 = _____

18. 800 − 433 = _____

ALGEBRA Use the rule to find the difference.

19.

Rule: Subtract 37	
Input	Output
200	
150	
600	

20.

Rule: Subtract 239	
Input	Output
500	
900	
800	

21.

Rule: Subtract 89	
Input	Output
202	
707	
808	

Solve.

22. A bag holds 300 seeds. Brandon plants 79 of the seeds. How many seeds are left?

_____

23. A book about gardening has 504 pages. Amy has read 245 pages so far. How many more pages does she have left to read?

_____

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3–8 Homework Practice

Subtract Across Zeros

Subtract. Check your answer.

1. 100 − 27

2. 301 − 172

3. 500 − 165

4. 702 − 234

5. $400 − $138 _____

6. $600 − $422 _____

7. $702 − $375 _____

8. 301 − 28 _____

9. 200 − 143 _____

10. 803 − 336 _____

11. 100 of the third-graders wear backpacks to school. 67 of the second-graders wear backpacks to school. How many more third-graders wear backpacks? _____

12. Kayla has $100. She buys a CD player for $87. How much money does she have now? _____

Spiral Review

Subtract. (Lesson 3–7)

13. 1,426 − 389

14. 2,255 − 1,343

15. $3,678 − $1,836

16. $5,491 − $1,762

17. Morgan has a high score of 9,875 on her favorite game. Her brother can score 6,548. What is the difference between their scores?

_____

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Name _____ Date _____

3–8

Problem-Solving Practice

Subtract Across Zeros

Solve.

1. The best bowler in the Junior Bowler's League scored 150 points. Jason scored 125 points. How many points higher did the best bowler score than Jason?

_____ points higher

2. There are 70 bowlers in the league this year. There were only 54 bowlers last year. How many more bowlers joined the league this year?

_____ more bowlers

Votes for School President	
Candidate	Number of Votes
Ariana	200
Miguel	147
Tyrone	171

Use the chart to solve.

3. How many more votes did the winner get than Miguel?

_____ more votes

4. How many more votes did Tyrone need to win the election?

_____ more votes

Solve.

5. Harrison and Jordan played 3 computer games. Jordan scored 124 points in the first game and 268 points in the second game. Harrison scored a total of 600 points for all 3 games. How many points does Jordan need in the third game to beat Harrison's score?

_____ points

6. Keisha is saving money for a new computer that costs $480. She has saved $175. She found a coupon for $50 off the price of the computer. How much more money does Keisha need to save to buy the computer?

$ _____ more

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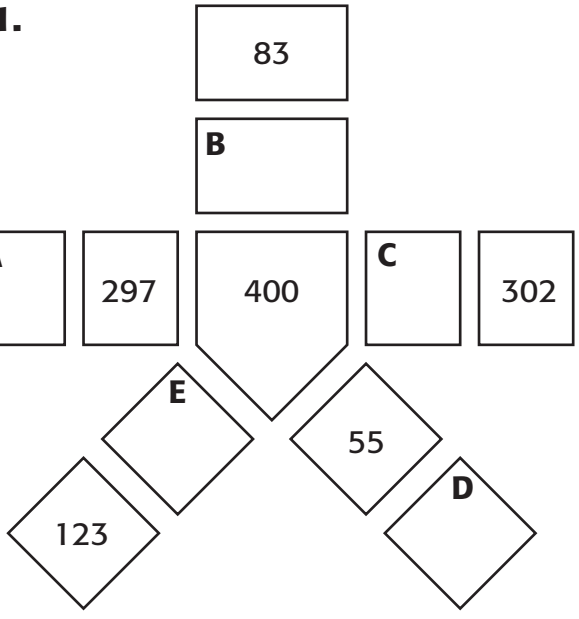
Name _____ Date _____

Enrich

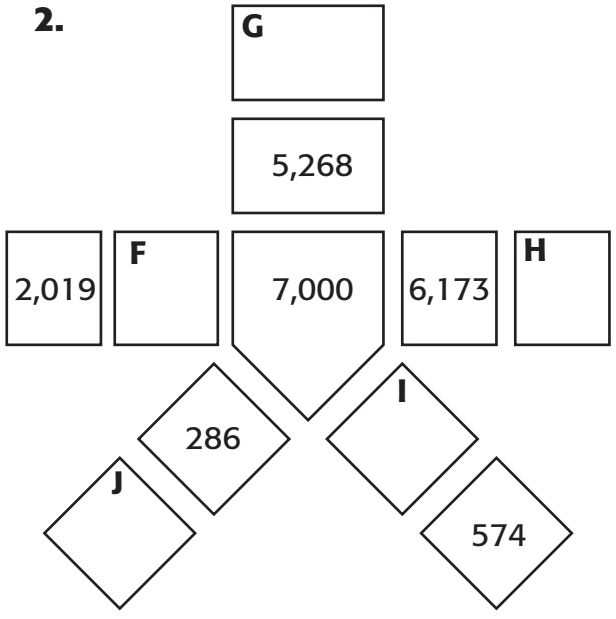
Subtraction Pinwheels

Find the missing numbers in each subtraction pinwheel. Remember to regroup when subtracting across zeros.

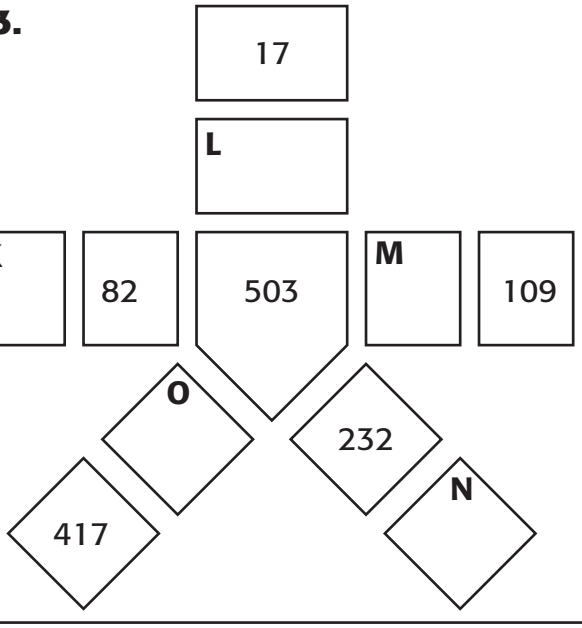
1.



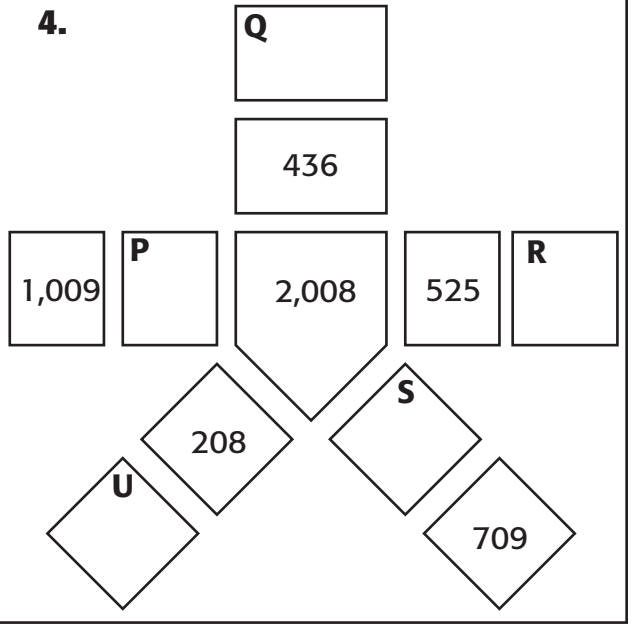
2.



3.



4.



5. Match the difference with a number shown under the lines below. Write the letter of the difference from the box on the line to write a mystery message.

$\overline{1{,}483}$ $\overline{277}$ $\overline{1{,}732}$ $\overline{1{,}483}$ $\overline{86}$ $\overline{1{,}800}$ $\overline{999}$

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Name _____ Date _____

3–9

Reteach

Select Addition or Subtraction

How do you decide if you should add or subtract? Looking for key words in a problem can help you decide.

The following words help you know that you should **add:**

in all *altogether* *total* *sum*

The following words help you know that you should **subtract:**

how many more *difference* *how many left*

The classroom has 27 desks. There are 23 students sitting at the desks. How many desks are left?

The words how many left tell you that you should subtract: 27 – 23 = 4. There are 4 desks left.

Underline the words that tell you if you should add or subtract. Select addition or subtraction to solve.

1. Dustin read 23 pages. There are 91 pages in the book. How many more pages must Dustin read to finish the book?

_____

2. Gina has 315 stickers. Tara has 219. How many stickers do Gina and Tara have altogether?

_____

3. Austin walked his dog for 17 minutes in the morning and 19 minutes in the evening. How many total minutes did he walk his dog?

_____

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Name _____ Date _____

3–9

Skills Practice

Select Addition or Subtraction

Select addition or subtraction and solve.

1. A black spruce tree is 32 feet tall. An Engelmann pine tree is 110 feet tall. How much taller is the Engelmann pine than the black spruce?

_____

2. A live oak tree is 48 feet tall. A California white oak tree is 42 feet taller. How tall is the California white oak?

_____

3. The garden club raises $123 for a community garden. The club spends $78 on supplies. How much money does the garden club have left?

_____

4. Nadia's garden has a length of 45 feet and a width of 32 feet. How much longer is the length than the width?

_____

Solve.

5. Joey plants 15 pumpkin seeds, 21 squash seeds, and 13 tomato seeds in his gaden. How many seeds does Joey plant altogether?

_____

6. A maple tree's leaves change color in the fall. Suppose a maple tree has 309 leaves. 171 turn red, 57 turn orange, and the rest of the leaves turn brown. How many leaves turn brown?

_____

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Name _____ Date _____

3–9

Homework Practice

Select Addition or Subtraction

Select addition or subtraction and solve.

1. Luis needs 4 blue marbles, 8 striped marbles, 12 green marbles, and 18 red marbles for his game. How many marbles does he need in all?

_____

2. Shelby made 15 bracelets. Her mother made 43. How many more bracelets did Shelby's mother make?

_____

The table shows the favorite sports of third graders at Sam's school.

Favorite Sports	
Lacrosse	28
Soccer	85
Football	35
Volleyball	21
Basketball	87

3. What is the sum of the votes?

_____

4. How many more students voted for basketball and volleyball than for lacrosse and football?

_____

Spiral Review

Estimate. Then subtract. Check for reasonableness. (Lesson 3-8)

5. 200 − 43

6. 302 − 166

7. 400 − 248

8. 601 − 526

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Name _____ Date _____

3–9

Problem-Solving Practice

Select Addition or Subtraction

Select addition or subtraction to solve.

1. Robert is 47 inches tall. His older brother Randy is 65 inches tall. How much taller is Randy than Robert?

_____ inches taller

2. Robert weighs 52 pounds. Randy weighs 68 pounds more than Robert. How much does Randy weigh?

_____ pounds

3. A new house has 1,252 square feet of floor space. The owner plans to cover 590 square feet with carpeting and the rest with hardwood. How many square feet of hardwood will the owner need?

_____ square feet

4. Jill raised $315 for a charity walk. Steph raised $278. How much money did Jill and Steph raise in all?

_____

5. Heather and Aaron each bought a set of markers. Heather paid $3 for her set. Aaron paid with a $5-bill. He got back $7 in change. How much more were Heather's markers than Aaron's?

$ _____ more

6. There are 500 sheets of art paper in a pack. The pack has 125 white sheets, 135 black sheets, and 115 yellow sheets. The rest of the sheets are red. How many red sheets of art paper are in the pack?

_____ red sheets

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Name _____ Date _____

3–9

Enrich

Choose a Sign

Fill in the missing signs. Write + or − in the box. Write =, <, or > in the circle to make the following number sentences true.

1. 9 ☐ 5 + 3 ◯ 9 − 4 _____

2. 4, 925 ◯ 1,679 ☐ 245 _____

3. 3 s + 2 s ◯ 1 _____

4. 100 ☐ the number days in a week ◯ 94 _____

5. 18 ☐ 27 ☐ 36 ◯ 72 ☐ 9 _____

6. 456 ☐ 25 ◯ 25 ☐ 456 _____

7. 8,005 ☐ 5008 ◯ 2,997 _____

8. 87 rounded ☐ 58 rounded is ◯ 140.

Write a number sentence to show how you rounded to make the number sentence true.

_____

_____

_____

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3

Name _____ Date _____

Individual Progress Checklist

Learning Mastery			Lesson	Lesson Goal	Comments
B	D	M			
			3-1	Subtract two-digit numbers.	
			3-2	Round to estimate subtraction problems.	
			3-3	Subtract money.	
			3-4	Decide whether an answer is reasonable.	
			3-5	Subtract three-digit numbers with regrouping.	
			3-6	Choose a strategy to solve problems.	
			3-7	Subtract three- and four digit numbers.	
			3-8	Subtract across zeros.	
			3-9	Select addition or subtraction to solve problems.	

B = Beginning; **D** = Developing; **M** = Mastered

Note to Parents

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Name _____ Date _____

3

Chapter Diagnostic Test

Subtract.

1. 16 − 7	**1.** _____
2. 12 − 4	**2.** _____
3. 18 − 9	**3.** _____
4. 60 − 10	**4.** _____

Round each number to the nearest ten.

5. 86	**5.** _____
6. 65	**6.** _____
7. 31	**7.** _____
8. 79	**8.** _____

Round each number to the nearest hundred.

9. 374	**9.** _____
10. 256	**10.** _____
11. 501	**11.** _____
12. 634	**12.** _____

Estimate each difference.

13. 72 − 62	**13.** _____
14. 59 − 28	**14.** _____
15. 87 − 25	**15.** _____
16. 66 − 41	**16.** _____
17. Janie had $6 to spend at the craft store. She purchased 2 boxes of paints. Janie received $2 in change. How much did the paints cost?	**17.** _____

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Name _____ Date _____

3

Chapter Pretest

Subtract.

1. 32 − 4 **1.** _____

2. 68 − 48 **2.** _____

3. 91 − 2 **3.** _____

4. $57 − $19 **4.** _____

5. $673 − $456 **5.** _____

6. Adult admission to the amusement park is $49. A child's admission is $25. How much more does an adult admission cost? **6.** _____

Estimate the difference using rounding.

7. 65 − 47 **7.** _____

Estimate the difference using compatible numbers.

8. $188 − $86 **8.** _____

9. $571 − $113 **9.** _____

Solve. Check for reasonableness.

10. 743 − 147 **10.** _____

11. 902 − 577 **11.** _____

12. $4,668 − $921 **12.** _____

13. 8,487 − 3,431 **13.** _____

Assessment

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3

Name _____ Date _____

Quiz 1 *(Lesson 3–1 through 3–3)*

Subtract.

1. 65 − 42 **1.** _____

2. 70 − 54 **2.** _____

3. $487 − $225 **3.** _____

4. $502 − $346 **4.** _____

Estimate using rounding.

5. 146 − 82 **5.** _____

6. 289 − 37 **6.** _____

7. 401 − 348 **7.** _____

Estimate using compatible numbers.

8. 658 − 131 **8.** _____

9. 422 − 67 **9.** _____

10. 228 − 102 **10.** _____

Solve.

11. Bradley has read 157 books so far this year. He wants to read a total of 325 books. Using front-end estimation, about how many more books does he need to read? **11.** _____

12. Veronica bought a $5 sandwich and paid with $10. How much change will she get back? **12.** _____

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Name _____ Date _____

Quiz 2 *(Lesson 3–4 through 3–6)*

Subtract.

1. $132 − $45 **1.** _____

2. $212 − $166 **2.** _____

3. $50 − $22 **3.** _____

4. $100 − $34 **4.** _____

5. $2 − $1 **5.** _____

6. $700 − $162 **6.** _____

Solve. Check for reasonableness.

7. Paige had 157 students at her old school. There are 550 at her new school. She estimates that her new school has about 400 more students. Is that reasonable? Explain. **7.** _____

_____

_____

Use any strategy below to solve. Tell which strategy you used.

- Use the four-step plan
- Estimate or an exact answer
- Reasonable answers

8. At the scavenger hunt, each team had to find 82 items. Jordan's team found 31 items. About how many more items do they need to find? **8.** _____

9. Erin had 542 tickets to get a prize. She gave her friend 125. How many tickets does she have left? **9.** _____

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3

Name _____ Date _____

Quiz 3 *(Lesson 3–7 through 3–9)*

Subtract.

1. 2,005 − 872 **1.** _____

2. $4,008 − $2,631 **2.** _____

3. 9,006 − 8,447 **3.** _____

4. $6,001 − $3,405 **4.** _____

5. 300 − 129 **5.** _____

6. 7,090 − 368 **6.** _____

7. 2,735 − 872 **7.** _____

8. 9,256 − 8,447 **8.** _____

9. $6,001 − $3,405 **9.** _____

Select addition or subtraction to solve.

10. 39 students play soccer, 19 students play basketball, and 42 students play hockey. How many students play sports in all? **10.** _____

11. A bowl has 203 blueberries. Stella eats 51 blueberries and Rachel eats 29. How many blueberries are left? **11.** _____

12. David is 48 inches tall. Rich is 53 inches tall. How much taller than David is Rich? **12.** _____

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Name _____ Date _____

3

Mid-Chapter Test *(Lesson 3–1 through 3–3)*

Read each question carefully. Write your answer on the line provided.

1. Kevin has 32 pens. 6 are missing. How many are left?

A. 26 **B.** 22 **C.** 28 **D.** 32 **1.** _____

2. $531 − $385 =

F. $346 **G.** $256 **H.** $154 **J.** $146 **2.** _____

3. Estimate this difference using front-end estimation:
842 − 684

A. 100 **B.** 160 **C.** 200 **D.** 220 **3.** _____

Subtract.

5. 72 − 57 **5.** _____

6. 75¢ − 32¢ **6.** _____

7. $421 − $165 **7.** _____

Estimate each difference using rounding.

8. 99 − 42 **8.** _____

9. 73 − 58 **9.** _____

10. 337 − 119 **10.** _____

Solve. Check for reasonableness.

11. Amber noticed her bag had a hole in it. She had 57 pennies in it when she left school. She has 38 pennies now. She estimates that she lost about 20 pennies. Is this reasonable? Explain. **11.** _____

_____

_____

Assessment

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Name _____ Date _____

3

Vocabulary Test

Match each word to its definition. Write your answers on the lines provided.

1. difference _____

2. regroup _____

3. subtraction _____

4. compatible numbers _____

5. estimate _____

A. a number close to an exact value

B. the answer in a subtraction problem

C. to take apart a number to write it in a new way

D. numbers that are easy to use together when estimating

E. an operation that tells the difference, when some or all are taken away

Fill in the blank for each of the following questions.

7. When you are completing a subtraction problem, the answer is known as the _____.

7. _____

8. 15 ones = 1 ten 5 ones. This is the correct way to _____.

8. _____

9. 400 − 106 (change to 400 − 100) is about 300. This is an example of _____.

9. _____

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Name _____ Date _____

3

Oral Assessment

Arrange a selection of pencils, crayons, and paper. Include six of each. Line up the objects in rows on a table.

Read each question aloud to the student. Then write the student's answers on the lines below the question.

1. How many objects do we have?

_____

2. If I take away these six objects and these three objects, how many objects will I have left?

_____

3. How many will I have if I take away two more objects?

_____

4. Tell how you got your answer.

_____

_____

5. Let's line up six pencils and four crayons. How many more pencils than crayons do we have?

_____

6. Tell how you got your answer.

_____

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Name _____ Date _____

Oral Assessment *(continued)*

7. If I have $4 and buy a can of juice for $1, how much money do I have left?

_____

8. Tell how you got your answer.

_____

_____

9. If my bean plant is 12 inches tall and my sunflower plant is 7 inches tall, how much taller is my bean plant?

_____

10. Tell how you got your answer.

_____

_____

11. If a large box of cereal is $4 and a small box is $2, about how much less does the small box of cereal cost?

_____

12. Do we need an exact answer or an estimate answer?

_____

13. How can you tell?

_____

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Name _____ Date _____

Chapter Project Rubric

Score	Explanation
3	Student successfully completed the chapter project. Student demonstrated appropriate use of chapter information in completing the chapter project.
2	Student completed the chapter project with partial success. Student partially demonstrated appropriate use of chapter information in completing the chapter project.
1	Student did not complete the chapter project or completed it with little success. Student demonstrated very little appropriate use of chapter information in completing the chapter project.
0	Student did not complete the chapter project. Student demonstrated inappropriate use of chapter information in completing the chapter project.

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Name _____ Date _____

3

Chapter Foldables Rubric

Score	Explanation
3	Student properly assembled Foldables graphic organizer according to instructions. Student recorded information related to the chapter in the manner directed by the Foldables graphic organizer. Student used the Foldables graphic organizer as a study guide and organizational tool.
2	Student exhibited partial understanding of proper Foldables graphic organizer assembly. Student recorded most but not all information related to the chapter in the manner directed by the Foldables graphic organizer. Student demonstrated partial use of the Foldables graphic organizer as a study guide and organizational tool.
1	Student showed little understanding of proper Foldables graphic organizer assembly. Student recorded only some information related to the chapter in the manner directed by the Foldables graphic organizer. Student demonstrated little use of the Foldables graphic organizer as a study guide and organizational tool.
0	Student did not assemble Foldables graphic organizer according to instructions. Student recorded little or no information related to the chapter in the manner directed by the Foldables graphic organizer. Student did not use the Foldables graphic organizer as a study guide and organizational tool.

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Name _____ Date _____

3

Chapter Test, Form 1

Read each question carefully. Write your answer on the line provided.

Find each difference.

1. 96 − 83

A. 3 **B.** 13 **C.** 14 **D.** 20 **1.** _____

2. $903 − $156

F. $853 **G.** $757 **H.** $747 **J.** $657 **2.** _____

3. 7,294 − 835

A. 7,661 **B.** 7,659 **C.** 6,459 **D.** 6,359 **3.** _____

4. 8,001 − 546

F. 8,545 **G.** 7,545 **H.** 7,455 **J.** 5,565 **4.** _____

5. $5,000 − $1,079

A. $4,079 **B.** $3,921 **C.** $2,131 **D.** $2,031 **5.** _____

Estimate each difference using rounding.

6. 53 − 28

F. 40 **G.** 30 **H.** 20 **J.** 10 **6.** _____

7. 49 − 12

A. 10 **B.** 20 **C.** 30 **D.** 40 **7.** _____

Estimate the difference using compatible numbers.

8. 4,377 − 2,801

F. 6,500 **G.** 3,500 **H.** 2,500 **J.** 1,500 **8.** _____

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Name _____ Date _____

Chapter Test, Form 1 *(continued)*

Solve. Check for reasonableness.

9. Inez bought a cactus for $2 and an aloe plant for $5. She paid with two $5-bills. Is it reasonable to say she has enough money left to buy another cactus?

A. no; $\$2 + \$5 + \$2 > \$5$

B. no; $\$2 + \$5 + \$2 > \$5 + \$5$

C. no; $\$2 + \$5 + \$5 > \$5$

D. yes; $\$2 + \$5 + \$2 < \$5 + \$5$

9. _____

Select addition or subtraction to solve.

10. A nursery received a shipment of 3,648 tulip bulbs at the beginning of the season. By the end of the season, only 183 bulbs were left. How many tulip bulbs did the nursery sell?

F. 3,565 **G.** 3,545 **H.** 3,465 **J.** 3,425 **10.** _____

11. In the first week of the flower show, 2,917 people attended. 2,304 people attended the second week. About how many more people attended the first week?

A. 6,000 **B.** 5,000 **C.** 4,000 **D.** 1,000 **11.** _____

12. Workers unloaded 425 bags of soil and 176 bags of peat moss. How many more bags of soil than peat moss were unloaded?

F. 601 **G.** 249 **H.** 850 **J.** 73 **12.** _____

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3

Chapter Test, Form 2A

Read each question carefully. Write your answer on the line provided.

Find each difference.

1. 88 − 67

A. 11 **B.** 21 **C.** 23 **D.** 27 **1.** _____

2. 3,361 − 2,704

F. 657 **G.** 667 **H.** 1,657 **J.** 1,667 **2.** _____

3. $706 − $397

A. $497 **B.** $419 **C.** $319 **D.** $309 **3.** _____

4. 636 − 434

F. 102 **G.** 192 **H.** 202 **J.** 232 **4.** _____

5. 4,700 − 671

A. 4,029 **B.** 4,127 **C.** 4,129 **D.** 4,139 **5.** _____

Estimate each difference using rounding.

6. 72 − 39

F. 20 **G.** 30 **H.** 40 **J.** 50 **6.** _____

7. 55 − 21

A. 10 **B.** 20 **C.** 30 **D.** 40 **7.** _____

Estimate the difference using compatible numbers.

8. $4,601 − $1,356

F. 5,000 **G.** 4,600 **H.** 3,600 **J.** 2,000 **8.** _____

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Name _____ Date _____

Chapter Test, Form 2A *(continued)*

Solve. Check for reasonableness.

9. Javier bought a comic book for $6 and a notepad for $2. He paid with three $5-bills. Is it reasonable to say he has enough money left to buy another comic book?

A. no; $\$6 + \$2 + \$2 > \$5$

B. no; $\$6 + \$2 + \$6 > \$5 + \$5$

C. no; $\$6 + \$2 + \$2 > \$5 + \$5$

D. yes; $\$6 + \$2 + \$6 < \$5 + \$5 + \$5$

9. _____

Select addition or subtraction to solve.

10. Andrew and Jacob baked 65 lemon bars to sell at a bake sale. At the end of the bake sale, only 36 lemon bars were left. How many lemon bars did the boys sell?

F. 36 **G.** 31 **H.** 29 **J.** 19 **10.** _____

11. On the first night of the school play, 1,638 people attended. 1,912 people attended on the second night. About how many more people attended on the second night?

A. 90 **B.** 100 **C.** 200 **D.** 300 **11.** _____

12. Kaitlyn has read 57 pages of a 245-page book. How many more pages does Kaitlyn have left to read?

F. 302 **G.** 188 **H.** 490 **J.** 131 **12.** _____

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Name _____ Date _____

3

Chapter Test, Form 2B

Read each question carefully. Write your answer on the line provided.

Subtract.

1. $200 − $43

A. $257 **B.** $242 **C.** $157 **1.** _____

2. 636 − 434

F. 102 **G.** 192 **H.** 202 **2.** _____

3. 4,700 − 671

A. 4,029 **B.** 4,127 **C.** 4,129 **3.** _____

4. $2,000 − $361

F. $1,629 **G.** $1,639 **H.** $1,749 **4.** _____

5. 6,472 − 563

A. 4,909 **B.** 5,809 **C.** 5,909 **5.** _____

Use compatible numbers to estimate the difference.

6. 746 − 108

F. 600 **G.** 650 **H.** 750 **6.** _____

7. $4,601 − $1,356

A. 5,000 **B.** 4,600 **C.** 3,600 **7.** _____

Assessment

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Name _____ Date _____

Chapter Test, Form 2B *(continued)*

Solve. Check to see if your answer makes sense.

8. John bought a book for $6 and a notepad for $2. He paid with three $5-bills. Does he have enough money left to buy another book?

F. no; $\$6 + \$2 + \$2 > \$5$

G. no; $\$6 + \$2 + \$6 > \$5 + \$5$

H. yes; $\$6 + \$2 + \$6 < \$5 + \$5 + \$5$ **8.** _____

Add or subtract to solve.

9. On the first night, 1,638 people saw the play. 1,912 people saw it on the second night. About how many more people attended on the second night?

A. 90 **B.** 100 **C.** 300 **9.** _____

10. Andrew and Jacob baked 65 cookies to sell at a bake sale. At the end of the bake sale, only 36 cookies were left. How many cookies did the boys sell?

F. 36 **G.** 31 **H.** 29 **10.** _____

11. Kaitlyn has read 57 pages of a 245-page book. How many more pages does Kaitlyn have left to read?

A. 302 **B.** 188 **C.** 490 **11.** _____

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3

Name _____ Date _____

Chapter Test, Form 2C

Read each question carefully. Write your answer on the line provided.

Find each difference.

1. $706 − $397 **1.** _____

2. 636 − 434 **2.** _____

3. 88 − 67 **3.** _____

4. 300 − 58 **4.** _____

5. $200 − $43 **5.** _____

Estimate each difference using rounding.

6. 55 − 21 **6.** _____

7. 72 − 39 **7.** _____

Estimate the difference using compatible numbers.

8. $4,601 − $1,356 **8.** _____

9. 746 − 108 **9.** _____

Find each difference.

10. $2,300 − $417 **10.** _____

11. 4,700 − 671 **11.** _____

12. $2,000 − $361 **12.** _____

Assessment

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Name _____ Date _____

Chapter Test, Form 2C *(continued)*

13. 3,361 − 2,704 **13.** _____

14. 6,472 − 563 **14.** _____

Select addition or subtraction to solve.

15. Andrew and Jacob baked 35 lemon bars to sell at a bake sale. At the end of the bake sale, only 16 lemon bars were left. How many lemon bars did the boys sell? **15.** _____

16. Javier bought a book for $5 and a notepad for $3. He paid with two $5-bills. Is it reasonable to say he has enough money left to buy another book? **16.** _____

17. On the first night of the play, 1,027 people attended. 1,192 people attended on the second night. About how many more people attended on the second night? **17.** _____

18. Josh has read 64 pages of a 245-page book. How many pages does he have left to read? **18.** _____

Use the prices for problems 19–20.

School Store Price List
Eraser: 20¢
Pencil: 10¢
Notepad: 75¢

19. Amber buys two erasers. She pays with two quarters. What expression shows her change? **19.** _____

20. How much more is the price of a notepad than the price of a pencil? **20.** _____

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Name _____ Date _____

3

Chapter Test, Form 2D

Read each question carefully. Write your answer on the line provided.

Subtract.

1. $706 − $397 **1.** _____

2. 636 − 434 **2.** _____

3. 88 − 67 **3.** _____

4. 300 − 58 **4.** _____

5. $200 − $43 **5.** _____

Use estimation to find each difference.

6. 55 − 21 **6.** _____

7. 72 − 39 **7.** _____

Use compatible numbers to estimate the difference.

8. $4,601 − $1,356 **8.** _____

9. 746 − 108 **9.** _____

Find each difference.

10. $2,300 − $417 **10.** _____

11. 4,700 − 671 **11.** _____

12. $2,000 − $361 **12.** _____

Assessment

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Name _____ Date _____

Chapter Test, Form 2D *(continued)*

Add or subtract to solve.

13. Andrew and Jacob baked 65 cookies to sell at a bake sale. At the end of the bake sale, only 36 cookies were left. How many cookies did the boys sell?

13. _____

14. Javier bought a book for $5 and a notepad for $2. He paid with two $5-bills. Does he have enough money left to buy another book?

14. _____

15. 1,368 people saw the play on the first night. 1,565 people saw it on the second night. About how many more people attended on the second night?

15. _____

16. Kaitlyn has read 57 pages of a 245-page book. How many more pages does she have left to read?

16. _____

Use the prices for problems 19–20.

School Store Price List
Eraser: 20¢
Pencil: 10¢
Notepad: 75¢

17. Amber buys one eraser and one pencil. She pays with 2 quarters. Write an expression that shows her change. Then solve.

17. _____

18. How much more is the notepad than the pencil?

18. _____

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Name _____ Date _____

3

Chapter Test, Form 3

Read each question carefully. Write your answer on the line provided.

Find each difference.

1. 88 − 67 **1.** _____

2. 300 − 58 **2.** _____

3. $706 − $397 **3.** _____

4. 636 − 434 **4.** _____

5. $200 − $43 **5.** _____

Estimate each difference using rounding.

6. 55 − 21 **6.** _____

7. 72 − 39 **7.** _____

Estimate the difference using compatible numbers.

8. 746 − 108 **8.** _____

9. $4,601 − $1,356 **9.** _____

Find each difference.

10. $2,000 − $361 **10.** _____

11. 3,361 − 2,704 **11.** _____

12. $2,309 − $417 **12.** _____

13. 4,700 − 671 **13.** _____

14. 6,472 − 563 **14.** _____

Assessment

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Name _____ Date _____

Chapter Test, Form 3 *(continued)*

Select addition or subtraction to solve.

15. On the first night of the school play, 1,638 people attended. On the second night, 1,912 people attended. How many more people attended on the second night compared to the first night? **15.** _____

16. Andrew and Jacob baked 65 lemon bars to sell at a bake sale. They sold the lemon bars for $2 each. At the end of the bake sale, only 36 lemon bars were left. How many lemon bars did the boys sell? How much money did they make? **16.** _____

_____

17. Javier bought a comic book for $6 and a notepad for $2. He paid with two $5-bills. Is it reasonable to say he has enough money left to buy another comic book? **17.** _____

18. Kaitlyn has read 57 pages of a 245-page book. How many pages does Kaitlyn have left to read? **18.** _____

Use the prices for problems 19–20.

School Store Price List
Eraser: 20¢
Pencil: 10¢
Notepad: 75¢

19. Amber buys one pencil. She pays with a quarter. Write an expression that shows her change. Then solve. **19.** _____

20. How much more is the price of a notepad than the price of a pencil? **20.** _____

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3

Chapter Extended-Response Test

Demonstrate your knowledge by giving a clear, concise solution to each problem. Be sure to include all relevant drawings and justify your answers. You may show your solution in more than one way or investigate beyond the requirements of the problem. If necessary, record your answer on another piece of paper.

1. a. Explain in your own words the meaning of *subtraction*.

b. What is the difference between subtraction with regrouping and subtraction without regrouping?

c. How do you subtract money? Provide an example.

2. a. List the two different methods of estimation.

b. Which of the two methods of estimation is most likely to give an estimate that is the furthest from the actual answer? Explain.

c. Write a problem about a real-life situation using estimation. Then solve the problem.

3. Use the table to answer the questions below.

Refreshments	
Salad	$4
Turkey Sub	$3
Fruit Salad	$1
Apple	$1
Milk	$1

a. How much more money does it cost to buy a turkey sub than a fruit salad?

b. How much will it cost to buy an apple, a milk and a salad?

Assessment

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Name _____ Date _____

3

Cumulative Test Practice Chapters 1–3

Test Example

Margaret and her mother are running errands. They have $100 for grocery shopping, a haircut for Margaret, and lunch. They spend $67 on groceries and $20 on the haircut. How much money do they have left to spend on lunch?

A. $21 **B.** $12 **C.** $13 **D.** $5

Read the Question

You need to find out how much Margaret and her mother can spend on lunch after buying groceries and a haircut.

Solve the Question

First, add the cost of the groceries and haircut.

$\$67 + \$20 = \$87$

Then subtract $87 from $100.

$\$100 - \$87 = \$13$

So, Margaret and her mother have $13 left to spend on lunch. The answer is C.

Read each question carefullly. Write your answer on the line provided.

1. Each year Rey saves $1,000 in his savings account. So far, he has saved $782. How much more does he need to save?

A. $234 **B.** $218 **C.** $210 **D.** $199 **1.** _____

2. The library received 47 new books. If there are now 622 books, how many were there before the new books arrived?

F. 575 **G.** 565 **H.** 500 **J.** 403 **2.** _____

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Name _____ Date _____

Cumulative Test Practice *(continued)*

3. Last year, the community park spent $2,000 on landscaping. This year, the park plans to spend $10,000 on equipment. How much more is the park spending this year?

A. $3,500 **B.** $5,000 **C.** $7,000 **D.** $8,000 **3.** _____

4. Which number is 17 less than 3,756?

F. 2,354 **G.** 3,710 **H.** 3,739 **J.** 4,000 **4.** _____

5. What is the best estimate of the difference rounded to the nearest hundred?

715 − 290

A. 400 **B.** 450 **C.** 500 **D.** 600 **5.** _____

6. Which of the following shows the numbers in order from least to greatest?

F. 112, 118, 129, 133 **H.** 118, 112, 129, 133

G. 112, 129, 118, 133 **J.** 129, 112, 118, 133 **6.** _____

7. Sebastian has 93 books on his bookshelf. Which of these equals 93?

A. 70 + 30 + 9 **C.** 30 + 60 + 3

B. 20 + 70 + 10 **D.** 50 + 40 + 9 **7.** _____

8. What number makes this number sentence true?

4 + 5 + 1 = 3 + 6 + ☐

F. 1 **G.** 8 **H.** 12 **J.** 20 **8.** _____

Assessment

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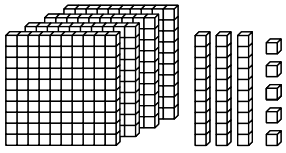
Name _____ Date _____

Cumulative Test Practice *(continued)*

9. What is the number in standard form?



A. 1,033
B. 945
C. 435
D. 2054

9. _____

10. What is the next number in the pattern?
2, 4, 6, 8, 10, _____

F. 9
G. 10
H. 11
J. 12

10. _____

Write your answer on the line provided.

11. Every year the Animal Club collects $1,500 in dues. So far, the club has collected $1,208. How much more does the club need to collect?

11. _____

12. On a bus trip, Tracy counts 87 green signs. Elena counts 45 brown signs. How many more signs did Tracy count?

12. _____

13. What number is 25 less than 4,523?

13. _____

14. Last year, Stevenson Summer Adventure Camp spent $1,050 on new classroom supplies. This year, the camp plans to spend $4,000 in playground equipment. How much more is the camp spending this year?

14. _____

15. What is the best estimate of the difference rounded to the nearest hundred?
678 − 321

15. _____

16. What number makes this number sentence true?

$2 + 1 + 7 = 4 + 2 +$ ▢

16. _____

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Name _____ Date _____

Student Recording Sheet

Use this recording sheet with pages 152–153 of the Student Edition.

Read each question. Then fill in the correct answer.

1. Ⓐ Ⓑ Ⓒ Ⓓ

2. Ⓕ Ⓖ Ⓗ Ⓙ

3. Ⓐ Ⓑ Ⓒ Ⓓ

4. Ⓕ Ⓖ Ⓗ Ⓙ

5. Ⓐ Ⓑ Ⓒ Ⓓ

6. Ⓕ Ⓖ Ⓗ Ⓙ

7. Ⓐ Ⓑ Ⓒ Ⓓ

8. Ⓕ Ⓖ Ⓗ Ⓙ

9. Ⓐ Ⓑ Ⓒ Ⓓ

10. Ⓕ Ⓖ Ⓗ Ⓙ

11. _____

12. _____

13. _____

14. _____

_____

_____

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3

Name _____ Date _____

Graphic Organizer

Use this graphic organizer to take notes on **Chapter 3: Subtract to Solve Problems**. Fill in the missing information.

Term	Definition	Examples
difference	**the answer to a subtraction problem**	**5 − 1 = 4**
estimate	**a number close to an exact value; an estimate indicates about how much**	**48 − 22 (estimate 50 − 20) about 30**
compatible numbers	**uses the front digit of a number and replaces the other digits with zeros**	**300 − 106 (estimate 300 − 100) about 200**
regroup	**to take apart a number to write it in a new way**	**12 ones = 1 ten 2 ones**
subtraction	**an operation that tells the difference, when some or all are taken away**	**5 − 3 = 2**

3

Name _____ Date _____

Anticipation Guide

Subtract to Solve Problems

STEP 1 ***Before you begin Chapter 3***

- Read each statement.
- Decide whether you agree (A) or disagree (D) with the statement.
- Write A or D in the first column OR if you are not sure whether you agree or disagree, write NS (not sure).

STEP 1 A, D, or NS	Statement	STEP 2 A or D
	1. Difference is the answer to an addition problem.	**D**
	2. Using estimation, the difference between 97¢ and 66¢ is about 30¢.	**A**
	3. Cents can be written using the cents sign (¢) or the dollar sign ($).	**A**
	4. When the number to be rounded is 5, always round up.	**A**
	5. There is only one method of estimation.	**D**
	6. Using models can help you to understand how to regroup tens and hundreds.	**A**
	7. You do not need to line up the digits in the ones place when you are subtracting large numbers.	**D**
	8. Some time when you subtract you have to regroup more than onetime.	**A**
	9. Words within a problem can help you decide whether to add or subtract.	**D**

STEP 2 ***After you complete Chapter 3***

- Reread each statement and complete the last column by entering an A (agree) or a D (disagree).
- Did any of your opinions about the statements change from the first column?
- For those statements that you mark with a D, use a separate sheet of paper to explain why you disagree. Use examples, if possible.

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3–1

Name _____ Date _____

Reteach

Two-Digit Subtraction

When you want to compare numbers, you subtract.

Find 16 − 3.

Step 1	Model 16.	
	16	Subtract the **ones**.
	− 3	6 ones − 3 ones = 3 ones
Step 2	16	Subtract the **tens**.
	− 3	1 tens − 0 tens = 1 ten.
	13	So, 16 − 3 = 13.

When there are not enough ones to subtract from, you need to regroup.

Find 14 − 8.

Step 1	Model 14.	
	14	Subtract the **ones**.
	− 8	8 ones > 4 ones, so regroup.
Step 2	Regroup 1 tens into 10 ones.	
	14	10 ones + 4 ones = 14 ones
	− 8	Subtract. 14 ones − 8 ones = 6 ones
	6	
Step 3	Subtract the **tens**.	
	14	0 tens − no tens = 0 tens
	− 8	
	06	So, 14 − 8 = 6.

Subtract. Use models if needed. Check your answer.

1. 37 − 3 = **34**

2. 49 − 7 = **42**

3. 82 − 9 = **73**

4. 31 − 6 = **25**

5. 77 − 8 = **69**

6. 63 − 9 = **54**

7. 54 − 3 = **51**

8. 22 − 1 = **21**

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3–1

Name _____ Date _____

Skills Practice

Two-Digit Subtraction

Subtract. Use models if needed. Check your answer.

1. 68 − 9 = **59**

2. 33 − 23 = **10**

3. 75 − 6 = **69**

4. 49 − 9 = **40**

5. 22 − 3 = **19**

6. 66 − 15 = **51**

7. 85 − 3 = **82**

8. 11 − 7 = **4**

9. 37 − 28 = **9**

10. 90 − 22 = **68**

11. 55 − 6 = **49**

12. 30 − 24 = **6**

13. 17 − 13 = **4**

14. 82 − 23 = **59**

15. 47 − 8 = **39**

16. 90 − 3 = **87**

17. Tess has 42 jars of paint. She gave 13 jars to Penny and 15 jars to John. How many were left for herself?

14 jars

18. Retta is 43 inches tall. Her brother is 52 inches tall. What is the difference in their heights?

9 inches

19. Kiyo had $21 when she went to the shopping center. On her trip, she purchased a new alarm clock. If she returned home with $8, how much was the alarm clock?

$13

Name _____ Date _____

3–1 Homework Practice

Two-Digit Subtraction

Subtract. Use models if needed. Check your answer.

1. 25 − 3 = **22**	**2.** 37 − 5 = **32**	**3.** 49 − 8 = **41**	**4.** 52 − 6 = **46**
5. 67 − 8 = **59**	**6.** 83 − 9 = **74**	**7.** 39 − 17 = **22**	**8.** 45 − 21 = **24**
9. 64 − 32 = **32**	**10.** 56 − 38 = **18**	**11.** 75 − 26 = **49**	**12.** 91 − 33 = **58**

13. 15 − 4 = **11** **14.** 28 − 6 = **22** **15.** 38 − 2 = **36**

16. 35 − 8 = **27** **17.** 62 − 7 = **55** **18.** 84 − 6 = **78**

19. 48 − 22 = **26** **20.** 56 − 34 = **22** **21.** 67 − 58 = **9**

22. 71 − 19 = **52** **23.** 83 − 45 = **38** **24.** 95 − 56 = **39**

25. John's mother made 24 muffins. John and his friends ate 6 muffins after school. How many muffins were left? **18 muffins**

26. Rebecca has 17 pairs of socks. 9 pairs are white. How many pairs are not white? **8 pairs**

Spiral Review

Find each sum. Use models if needed. (Lesson 2-8)

27. 445 + 338 = **783** **28.** $599 + $276 = **$875**

29. 762 + 354 = **1,116** **30.** $390 + $190 = **$4,980**

31. 444 + 888 = **1,332** **32.** $622 + $911 = **$16,133**

33. 232 + 330 = **562** **34.** $303 + $399 = **$702**

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Name _____ Date _____

3–1 Problem-Solving Practice

Two-Digit Subtraction

1. Kelly has 27 cousins. Twelve of the cousins are boys. How many cousins are girls?

15 cousins

2. Jeremy has collected 61 baseball caps from college and professional teams. Fifteen of the caps are from college teams. How many caps are from professional teams?

46 caps

3. Maria's swimming class will meet 50 times this year. She has already been to swimming class 34 times. How many more swimming classes does Maria have left this year?

16 more classes

4. It takes Dylan 47 minutes to get to his friend's house. He left his home 18 minutes ago. How many more minutes will it take to get to his friend's house?

29 minutes

5. Vanessa found 87 coins on the sidewalk. She gave 15 to her sister and 16 to her friend. How many coins does Vanessa have left?

56 coins

6. Brandon had 75 math problems for homework. He did 12 at school. He did 10 when he got home. How many problems does Brandon still need to finish?

53 problems

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3–1

Name _____ Date _____

Enrich

Ring Toss

Solve each word problem. Numbers can be ringed only once.

15	27	9
12	18	21
6	24	30

1. Byron threw two rings. The difference between the numbers is 12. The lesser number is 15. What is the greater number?
   27

2. Jennifer threw two rings. The difference between the numbers is 6. The lesser number is greater than 21. What two numbers did Jennifer ring?
   24 and **30**

3. Adam threw two rings. The difference between the numbers is 3. The greater number is even and less than 21. The lesser number is more than 9. What two numbers did Adam ring?
   18 and **15**

4. Randi threw two bean bags. The difference between the numbers is 15. One of the numbers is not a 12, 9 or 6. What two numbers did Randi ring?
   15 and **30**

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3–2

Name _____ Date _____

Reteach

Estimate Differences

To estimate a difference, round each number and then subtract.

Round to the nearest **ten.**	Round to the nearest **hundred.**	Round to the nearest **thousand.**
51 − 27	913 − 496	2,634 − 1,807
↓ ↓	↓ ↓	↓ ↓
50 − 30 = 20	900 − 500 = 400	3,000 − 2,000 = 1,000

Estimate each difference. Show how you rounded.

1. 91 − 38
   ↓ ↓
   90 − **40** = **50**

2. 685 − 193
   ↓ ↓
   700 − **200** = **500**

3. 809 − 485
   ↓ ↓
   800 − **500** = **300**

4. 1,886 − 1,050
   ↓ ↓
   2,000 − **1,000** = **1,000**

5. 7,801 − 4,118
   ↓ ↓
   8,000 − **4,000** = **4,000**

6. 9,111 − 5,138
   ↓ ↓
   9,000 − **5,000** = **4,000**

Estimate each difference.

7. 63 − 28 **30**
8. 82 − 69 **10**
9. 850 − 291 **600**
10. 635 − 119 **500**
11. 709 − 371 **300**
12. 545 − 172 **300**
13. 9,024 − 1,915 **7,000**
14. 7,070 − 5,885 **1,000**
15. 4,671 − 2,119 **3,000**
16. 6,401 − 4,229 **2,000**

Answers (Lesson 3–1 and 3–2)

Answers

Name _____ Date _____

3–2 Skills Practice

Estimate Differences

Estimate. Round to the nearest ten or hundred.

1. 73 − 27 **40**
2. 91 − 65 **20**
3. 685 − 193 **500**
4. 947 − 831 **100**
5. 45 − 19 **30**
6. 54 − 38 **10**
7. 615 − 315 **300**
8. 725 − 199 **500**
9. 981 − 350 **600**
10. 862 − 98 **800**
11. 219 − 98 **100**
12. 550 − 95 **500**
13. 703 − 376 **300**
14. 902 − 829 **100**
15. 1,709 − 888 **800**
16. 7,233 − 999 **6,000**
17. 1,590 − 690 **900**
18. 9,031 − 1,786 **7,000**
19. 58 − 27 **30**
20. 92 − 18 **70**
21. 168 − 79 **90**
22. 705 − 280 **400**
23. 932 − 239 **700**
24. 850 − 176 **700**
25. 48 − 27 **20**
26. 650 − 403 **300**

Solve.

27. A sugar maple tree is 72 feet tall. A pecan tree is 111 feet tall. About how much taller is the pecan tree?

about 30 feet

28. A ponderosa pine tree is 143 feet tall. It is 89 feet taller than a red juniper tree. About how tall is the red juniper tree?

about 50 feet

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Name _____ Date _____

3–2 Homework Practice

Estimate Differences

Estimate each difference using rounding.

1. 57 − 22 = **40**
2. 177 − 63 = **120**
3. $450 − $127 = **$320**

Estimate each difference using compatible numbers.

4. 68 − 22 **50**
5. $487 − $219 **$400**
6. 215 − 92 **100**
7. 223 − 145 = **100**
8. $835 − $462 = **$400**
9. 742¢ − 358¢ = **400¢**

10. Colin wants to buy a CD for $12 and a book for $4. About how much money does he need? **$16**

11. Shannon's scout troop sold 357 boxes of cookies last week. They started with 600 boxes to sell. About how many boxes do they have left to sell? **200 boxes**

Spiral Review

Subtract. (Lesson 3–1)

12. 32 − 1 = **31**
13. 34 − 12 = **22**
14. 43 − 8 = **35**
15. 48 − 35 = **13**
16. 58 − 9 = **49**
17. 50 − 27 = **23**
18. 62 − 8 = **54**
19. 64 − 39 = **25**

20. David scored 25 points in his basketball game. Seven of his points were from free throws. The rest were goals from the field. How many points were from the field? **18 points**

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3–2

Name _____ Date _____

Problem-Solving Practice

Estimate Differences

Use estimation to solve.

1. A basketball coach won 132 games. He won 79 more games than he lost. About how many games did he lose?

   about **50** games

2. The bleachers in the gym can seat about 289 people. If there are 191 people in the gym, about how many more people can fit in the bleachers?

   about **100** more

3. The Chase Tower in Houston, Texas, is 1,002 feet tall. It is 499 feet taller than the Huntington Building. About how tall is the Huntington Building?

   about **500** feet tall

4. Arco Company has $8,050 to spend on office equipment. The company bought a computer for $2,885, a copy machine for $485, and a video camera for $1,005. If the company buys another computer, about how much will be left in the budget?

   about $ **500**

5. Mr. Frasier has $875 in his savings account and $989 in his checking account. Mr. Willis has $1,289 in his savings account and $497 in his checking account. Who has more money in all?

   Mr. Frasier

   About how much more?

   about $ **100** more

6. The Bank One Center in Dallas is 787 feet tall. It is 304 feet taller than the Harwood Center. Is the Harwood Center greater than or less than 500 feet tall?

   less than 500 feet tall

   Explain your answer.

   Sample answer: The Bank One Center is about 800 feet tall. Since The Bank One Center is about 300 feet taller than the Harwood Center, the Harwood Center must be less than 500 feet.

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3–2

Name _____ Date _____

Enrich

All About Bill and Jill

Bill and Jill estimate in two different ways. Bill rounds up or down to the nearest ten, hundred, or thousand. Jill uses front-end estimation. She looks at the digit that has the highest place value in a number.

For example, Bill rounds 75 to 80 when rounding to the nearest ten. Jill rounds 75 to 70 by using the digit at the front end of the number. She rounds to the tens place, which has a 7.

Round and estimate the following numbers the way Bill and Jill would. Then complete the subtraction problems.

1. Round to the nearest **ten**.

   94 – 56

   ↓ ↓

   Bill **90 – 60 = 30**

   Jill **90 – 50 = 40**

2. Round to the nearest **hundred**.

   374 – 294

   ↓ ↓

   Bill **400 – 300 = 100**

   Jill **300 – 200 = 100**

3. Round to the nearest **ten**.

   736 – 92

   ↓ ↓

   Bill **740 – 90 = 650**

   Jill **730 – 90 = 640**

4. Round to the nearest **thousand**.

   4,598 – 2,874

   ↓ ↓

   Bill **5,000 – 3,000 = 2,000**

   Jill **4,000 – 2,000 = 2,000**

5. Round to the nearest ten, and then to the nearest hundred. In which way would Bill and Jill come up with the same answer?

   7,506 – 932

   ↓ ↓

   Bill **7,510 – 930 = 6,580; 7,500 – 900 = 6,600**

   Jill **7,500 – 930 = 6,570; 7,500 – 900 = 6,600**

   They get the same answer when rounding to the nearest hundred.

Answers

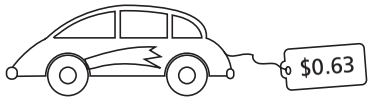
3–3

Name _____ Date _____

Reteach

Subtract Money

You can count up to make change. Start with the cost. Then count up from the coin or bill with the least value to the coin or bill with the greatest value. Stop counting when you reach the amount given.



Cost: 63¢ **Amount given:** $1

Count up: 63¢ 64¢ 65¢ 75¢ $1 The change is 37¢.

Find the difference by counting up.

1. Cost: 87¢ Amount given: $1
   Count up: **87¢ 88¢ 89¢ 90¢ $1; 3 pennies, 1 dime**
   The change is **13¢** .

2. Cost: 35¢ Amount given: 75¢
   Count up: **35¢ 40¢ 50¢ 75¢; 1 nickel, 1 dime, 1 quarters**
   The change is **40¢** .

3. Cost: $2 Amount given: $10
   Count up: **$2 $3 $4 $5 $10; 3 dollar bills, one $5-bill**
   The change is **$8** .

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3–3

Name _____ Date _____

Skills Practice

Subtract Money

Subtract. Use models if needed.

1. 89¢ − 35¢ = **54¢**
2. $46 − $18 = **$28**
3. $83 − $42 = **$41**
4. 30¢ − 11¢ = **19¢**
5. 62¢ − 25¢ = **37¢**
6. $75 − $14 = **$61**
7. $458 − $ 29 = **$429**
8. $60 − $37 = **$23**

Solve.

9. Ross buys a game for $6. He gives the cashier $10. How much change does he get?
   $4

10. Tawana buys a puzzle for $4. The cashier gives her $2 in change. How much did she give the cashier?
    $2

11. Annie bought a new shirt and paid with a $20-bill. The cashier gave Annie $2 in change. How much did the shirt cost?
    $18

12. Howard bought two sandwiches for $5 each. He gave the cashier two $5-bills. How much change did he get?
    no change

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3–3

Name _____ Date _____

Homework Practice

Subtract Money

Subtract. Use models if needed. Check your answer.

1. 38¢ − 3¢ = **35¢**	**2.** 84¢ − 53¢ = **31¢**	**3.** $95 − $42 = **53**	**4.** 17¢ − 9¢ = **8¢**
5. 60¢ − 45¢ = **15¢**	**6.** 89¢ − 54¢ = **35¢**	**7.** $67 − $50 = **$17**	**8.** $83 − $22 = **$61**

9. 83¢ − 21¢ **62¢** **10.** 72¢ − 35¢ **37¢** **11.** $45 − $25 **$20**

12. $68 − $20 **$48** **13.** $32 − $16 **$16** **14.** $50 − $28 **$22**

15. $43 − $12 **$31** **16.** $96 − $75 **$21** **17.** $80 − $68 **$12**

18. Joe has saved $25. He buys a CD for $16. How much money will he have left? **$9**

19. Courtney's sister has $27 to buy dinner for her and her sister. Courtney's dinner is $8. Her sister's dinner is $9. How much money does Courtney's sister have left? **$10**

Spiral Review

Estimate each difference using rounding. (Lesson 3–2)

20. 28 − 17 **10** **21.** 257 − 81 **180** **22.** $4.77 − $2.21 **$3.00**

Estimate each difference using compatible numbers.

23. 53 − 24 **30** **24.** 346 − 78 **270** **25.** $8.48 − $0.97 **$7.50**

26. 465 − 242 **225** **27.** 525 − 377 **150** **28.** $619 − $337 **$300**

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3–3

Name _____ Date _____

Problem-Solving Practice

Subtract Money

Solve.

1. Mr. Smith sold a 504 fruit bar to Molly. She gave him a $1-bill. How much change should Molly get?

$0.50

2. Suppose you buy a book and get $1.57 in change. What bills and coins could the change be?

Sample answer: $1 bill, 2 quarters, 1 nickel, 2 pennies

3. Amelia bought a $3 magazine and paid with a $10-bill. How much change does she get back?

$7.00

4. Marisa paid for a board game with a $10-bill. She received $2 in change. How much did the board game cost?

$8

5. Leandro pays for his textbook with a $20-bill. He gets back $1.

How much did his textbook cost?

$19.00

6. Josh sold a CD to Vera for $6. Vera gave Josh a $10-bill for the CD. How much change does he owe her?

$4

7. Meredith earned $15 last week helping Mrs. Yen weed her garden. Meredith earned $18 this week helping Mr. Hunt in his garden. How much more did Meredith earn this week?

$3.00

8. Chuck's allowance is $25 a month. If he spends $12 on comic books and snacks this month, how much of his allowance does he save?

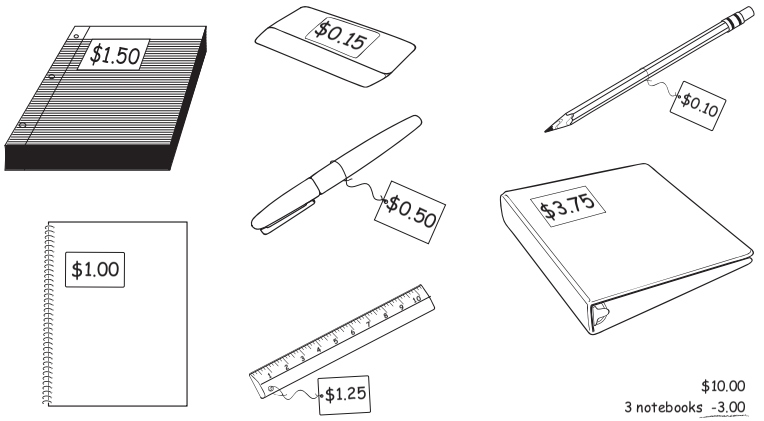
$13.00

3–3

Name _____ Date _____

Enrich

Shopping for School Supplies



Jennifer had $10 to buy school supplies. To keep track of what she spent, she subtracted the cost of each item as she put it in her basket. She kept subtracting prices from her total so that each time she subtracted, she got a new total. First, she put 3 spiral notebooks and 6 pencils in her basket. Then she put in an eraser and a packet of notebook paper. She then bought three more items. After shopping, she did not have any money left. What three items did she purchase?

a binder and two markers

$10.00
3 notebooks -3.00
$7.00
6 pencils -0.60
$6.40
Eraser -
-
Notebook paper -
-
1. _____ -
-
2. _____ -
-
3. _____ -
$0.00

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3–4

Name _____ Date _____

Reteach

Problem-Solving Skill: Reasonable Answers

After you solve a problem, it is important to check if your answer makes sense. One way to check if your answer is reasonable is to use estimates.

Use this exercise to learn more about checking whether an answer is reasonable.

Jorge has 243 baseball cards, and 198 cards are infielders. Jorge thinks he has about 50 outfielder cards. Is this reasonable?

Understand	You know there are 243 cards. You know that 198 cards are infielder cards. You need to find out if 50 outfielder cards is a reasonable answer.
Plan	Choose a strategy. You are finding part of a group. You will estimate and subtract to find about how many cards are left. You will also subtract to find the exact answer.
Solve	First, estimate by rounding to the nearest 10. $243 - 198$ turns into $240 - 200 = 40$ Then subtract. $243 - 198 = 45$
Check	Look back at the problem. Jorge's guess was that he had 50 outfielder cards. That is close to the estimate of 40. Jorge's guess is reasonable. Also check your answer by working the problem backwards: $45 + 198 = 243$ Since 243 is the number you started your subtraction with, your answer is correct.

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3–4

Name _____ Date _____

Reteach

Problem-Solving Skill (continued)

Solve. Check for reasonableness.

1. Angel's family is having dinner. The pizza delivery will cost $9. Angel has one $20 bill to pay for the pizza. Is it reasonable for Angel to expect about $10 in change from the delivery person? **Yes**

   Explain. **$20 − $9 = $11**

2. Vanessa kicked the soccer ball at the goal 117 times yesterday. She kicked the ball 112 times today. Is it reasonable for Vanessa to say that she kicked the ball about 300 times? **No**

   Explain. **117 + 112 = 229. Rounded to the nearest hundred, 229 is about 200.**

3. Adrian estimates that he will need to bring 90 cookies for the third-grade picnic. There are 32 students in room 1, 31 students in room 2, and 31 students in room 3. Is 90 cookies a reasonable estimate? **Yes**

   Explain. **32 + 31 + 31 = 94. Rounded to the nearest ten, 94 is 90.**

4. Holly wants to buy her 3 favorite songs. They cost $2, $1, and $3. She estimates that she will need $5 to buy the 3 songs. Is this a reasonable estimate? **No**

   Explain. **$2 + $3 + $1 = $6**

5. Greg read 10 books last week and 12 books this week. Is it a reasonable estimate to say that he read 20 books? **Yes**

   Explain. **10 + 12 = 22. Rounded to the nearest ten, 22 is 20.**

6. Jacqueline wants to buy a book and a CD. The book is $4. The CD is $12. She estimates $15 will be enough money. Is this a reasonable estimate? **No**

   Explain. **$12 + $4 = $16**

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3–4

Name _____ Date _____

Skills Practice

Problem-Solving Skill: Reasonable Answers

Solve. Check for reasonableness.

1. On Monday 321 people came for a craft show. On Tuesday 619 people came. Is it reasonable to say about 300 more people came to the craft show on Tuesday? **yes**

   Explain. **rounded to the nearest hundred, 321 is 300. 619 is rounded to 600. 600 − 300 = 300.**

2. Seth's class took a poll to find out what weekend activities people enjoy. The table below shows their answers.

playground	8
movie	4
friend over	12
be with family	8

   Seth estimated that about half his class likes to spend time with their families. Is this reasonable? **no**

   Explain. **8 + 4 + 12 + 8 = 32. Rounded to the nearest 10 this is 30. Half would be 15.**

3. Using Seth's class poll, is it reasonable to say that most of the class likes to have friends over or spend time with family? **Yes**

   Explain. **12 + 8 = 20. About half the class is 15. 20 is more than half.**

4. Dominique called her grandmother 17 times in July. She estimates that she called about half the days in July. Is this reasonable? **yes**

   Explain. **31 rounded to the nearest 10 is 30. 15 is half of 30. 17 is close to 15.**

3–4

Name _____ Date _____

Homework Practice

Problem-Solving Skill: Reasonable Answers

Solve. Check for reasonableness.

1. This weekend Emily drew 4 pictures for her friend. Then she drew 3 pictures for her grandmother and 2 pictures for her brother. She said she drew about 10 pictures. Is this reasonable? **yes**

   Explain. **4 + 3 + 2 = 9**

   9 is close to 10.

2. Elizabeth has 13 yarn bracelets. She wants to have 20. She estimates she will need to make about 10 bracelets. Is this reasonable? **yes**

   Explain. **20 − 13 = 7**

   7 is close to 10.

3. Megan and Daniel have a bag of 150 raisins. Megan eats 11 raisins, and Daniel eats 12. They think there are 130 raisins left in the bag. Is 130 a reasonable estimate? **yes**

   Explain. **11 rounded to the nearest ten is 10. 12 rounded to the nearest ten is 10. 150 − 10 − 10 = 130**

Spiral Review

Subtract. (Lesson 3–3)

4. 71¢ − 54¢ = **17¢**
5. $357 − $ 24 = **$333**
6. $629 − $540 = **$89**
7. $724 − $432 = **$292**

8. 64 − 33 **31**
9. 77 − 51 **26**
10. 52¢ − 37¢ **15¢**
11. $81 − $35 **$46**
12. $721 − $336 **$385**
13. $131 − $65 **$66**

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3–4

Name _____ Date _____

Enrich

Find the Missing Digits

Use what you know about addition and subtraction fact families to find the missing digits. You may need to regroup.

1. 4 **2** 6 − 2 8 **3** = **1** 4 3
2. **6** 0 7 − 3 **1** 5 = 2 9 **2**

3. Explain how you could solve these kinds of problems when there are digits missing.

   (7) + [5] = 12 **See students' work. Sample answer: I used what I knew about addition facts.**

   (7) − [5] = 2

Write a number inside each shape to make each number sentence true.

4. ◯ + □ = 15, ◯ − □ = 5 **circle = 10; square = 5**
5. △ + ◯ = 17, △ − ◯ = 9 **triangle = 13; circle = 4**
6. □ + △ = 79, □ − △ = 33 **square = 56; triangle = 23**
7. ◯ + □ = 419, ◯ − □ = 215 **circle = 317; square = 102**

8. Why must the order of the shapes be the same when solving both the addition and subtraction problems?

   See students' work. Sample answer: The shape with the larger number must be first so you can subtract.

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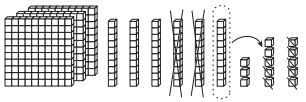
3–5

Name _____ Date _____

Reteach

Subtract Three-Digit Numbers with Regrouping

You can use models to help you regroup when you subtract.



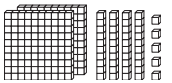
$$\begin{array}{r} {}^{5}\,{}^{13} \\ 3\not{6}\not{3} \\ -\ 28 \\ \hline 335 \end{array}$$

Remember:

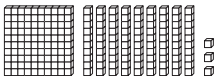
- Regroup 1 ten as 10 ones.
- Rename 63 as 5 tens 13 ones.

Use models to subtract.

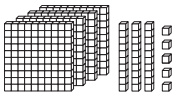
1. 245 − 19 = **226**



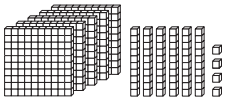
2. 193 − 44 = **149**



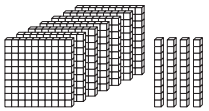
3. 435 − 219 = **216**



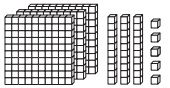
4. 564 − 228 = **336**



5. 740 − 426 = **314**



6. 335 − 127 = **208**



Subtract. Check your answer.

7. 962 − 722 = **240**
8. 681 − 361 = **320**
9. 750 − 136 = **614**
10. 435 − 219 = **216**
11. 865 − 839 = **26**
12. 942 − 927 = **15**

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3–5

Name _____ Date _____

Skills Practice

Subtract Three-Digit Numbers with Regrouping

Subtract. Check your answer.

1. 597 − 318 = **279**
2. 270 − 121 = **149**
3. 464 − 128 = **336**
4. 743 − 206 = **537**
5. 632 − 427 = **205**
6. 560 − 335 = **225**
7. 823 − 426 = **397**
8. 936 − 319 = **617**
9. 448 − 329 = **119**
10. 840 − 321 = **519**

ALGEBRA Find each missing digit.

11. $\begin{array}{r} 51\boxed{8} \\ -\ 31\boxed{9} \\ \hline 19\boxed{9} \end{array}$

12. $\begin{array}{r} \boxed{4}32 \\ -2\boxed{9}9 \\ \hline 1\boxed{3}3 \end{array}$

13. $\begin{array}{r} \boxed{6}11 \\ -\ 22\boxed{9} \\ \hline 3\boxed{8}2 \end{array}$

14. $\begin{array}{r} 74\boxed{0} \\ -\ 15\boxed{3} \\ \hline 58\boxed{7} \end{array}$

15. $\begin{array}{r} 3\boxed{9}6 \\ -1\boxed{2}8 \\ \hline \boxed{2}68 \end{array}$

16. $\begin{array}{r} \boxed{4}42 \\ -\ 31\boxed{3} \\ \hline 12\boxed{9} \end{array}$

Answers

3–5

Name _____ Date _____

Homework Practice

Subtract Three-Digit Numbers with Regrouping

Subtract. Check your answer.

1. 381 − 165 = **216**

2. 441 − 57 = **384**

3. $850 − $243 = **$607**

4. $319 − $175 = **$144**

5. 224 − 115 = **109**

6. 356 − 178 = **178**

7. 802 − 334 = **468**

8. $467 − $182 = **$285**

9. $521 − $375 = **$146**

10. $633 − $245 = **$388**

ALGEBRA Find each missing digit.

11. 51**4** − 265 = **2**49

12. 385 − **3**2**3** = 62

13. 4**0**9 − 112 = **2**97

14. The bike trail by James's house is 215 yards long. The hiking trail by Hannah's house is 118 yards long. How much longer is the bike trail by James's house? **97 yards**

Spiral Review (Lesson 3–4)

15. Pedro made 125 glasses of lemonade to sell at his stand. At the end of the day, there were 19 glasses left. He estimates that he sold about 100 glasses that day. Is this reasonable? **yes**

Explain. **125 − 19 = 106, which is close to 100.**

16. Brianna picked up 99 cans cleaning up the park last week with her scout troop. This week they picked up 312. She estimates that the troop picked up about 200 more cans this week. Is this reasonable? **yes**

Explain. **312 − 99 = 213, which is about 200.**

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3–5

Name _____ Date _____

Problem-Solving Practice

Subtract Three-Digit Numbers with Regrouping

Solve.

1. There were 175 peaches at the fruit stand.

Customers bought 82 of the peaches. How many peaches are left?

93 peaches

Did you need to regroup ones?

No tens? **Yes**

2. Another crate has 272 red and green apples.

There are 123 red apples in the crate. How many apples are green?

149 green apples

Did you need to regroup ones?

Yes tens? **No**

3. Tanisha bought a pack of 225 sheets of paper for her homework.

After a week, she has 198 sheets of paper left. How many sheets of paper did Tanisha use?

27 sheets

4. The school library would like to raise $915 to buy more books.

So far, the library has raised $475. How much more money does the library need to reach its goal?

$440 more

5. The health food store had 254 granola bars. They sold 85 bars yesterday and another 78 bars today. How many granola bars does the store have left?

91 granola bars

6. Evan has 85 baseball cards and 129 basketball cards. Alan has 312 football cards. Who has more cards in all?

Alan

How many more cards?

98 more cards

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Name _____ Date _____

3–5 Enrich

Feeding the Bears

Brownie is a brown bear and Ben is a black bear. They are rescued bears that live at a wild animal park. Both eat a special mix of vegetables and dry dog food every day. The park starts each week with 800 pounds of food for each animal. Then it keeps track of how much Brownie and Ben eat. Use the chart to help you answer the questions. (Hint: Be sure to use regrouping when you subtract.)

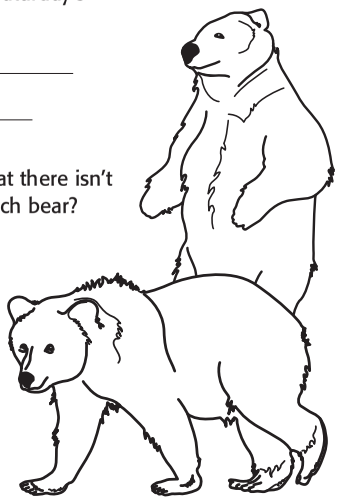
Bears	Food for the Week	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Brownie	800 pounds	92	95	87	88	90	86	93
Ben	800 pounds	80	82	83	85	84	79	79

1. How much more food did Brownie eat than Ben ate from Sunday to Tuesday?
   29 pounds

2. How much food did each bear have left after Saturday's feeding?
   Brownie had **169 pounds**
   Ben had **228 pounds**

3. The park wants to buy just enough food, so that there isn't any left over. How much food will it buy for each bear?
   For Brownie **631** pounds
   For Ben **572** pounds

4. What is the difference in the amount the two bears ate by the end of this week?
   59 pounds



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Name _____ Date _____

3–6 Reteach

Problem-Solving Investigation: Choose a Strategy

Sometimes you can solve a problem using more than one strategy. You must choose the strategy that works best for you when solving the problem.

Use this exercise to learn more about choosing a strategy to solve a problem.

Tristan has $43. If he buys a basket ball for $21, how much money does he have left?

Understand	**What do you know?** • You know Tristan has $43. • You know Tristan spent $21. **What do you need to find?** • You need to find out how much money Tristan has left.
Plan	A four-step plan is a good way to solve many problems. When you read the problem to find out what information you know, circle key facts or words and underline what you need to find out. Since you need to find how much money is left, subtract.
Solve	First take the money Tristan started with: $43 Subtract what he spent: $21 To find what is left: $43 − $21 = $22
Check	Prove your answer: Look at the problem again. Work backward to check: $22 + $21 = $43

Name _____ Date _____

3–6

Reteach

Problem-Solving Investigation (continued)

Practice

Use any strategy shown below to solve. Tell what strategy you used.

• Estimate or an exact answer • Reasonable answer • Work backward

1. The animal shelter rescued 57 animals after the storm. Now there are 862 animals at the shelter. How many animals were there before the storm? **805 animals**
   What strategy did you use? **work backward**

2. Mrs. Connolly hid 115 prizes around the school. She gave her students clues to solve. Her students found 82 prizes. About how many prizes are still missing? **30 prizes**
   What strategy did you use? **estimate answer**

3. 12 jars of paint come in a box. Trevor saw a sign that says each jar of paint costs $2. How much will the box of paints cost? **$24**
   What strategy did you use? **exact answer**

4. Natalie started the day with 178 bags of trail mix. Now she has 50 bags of trail mix left. Is it reasonable to say she gave away about 130 bags of trail mix? **yes**
   What strategy did you use? **reasonable answer**

5. Connor's grandfather gave him 87 baseball cards. Now he has 576 cards. How many cards did he have before his grandfather gave him more cards? **489 cards**
   What strategy did you use? **work backward**

6. Sabrina has 83¢. She spent 67¢ at the store. How much money does she have left? **16¢**
   What strategy did you use? **exact answer**

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Name _____ Date _____

3–6

Skills Practice

Problem-Solving Investigation: Choose a Strategy

Use any strategy shown below to solve. Tell what strategy you used.

• Estimate or an exact answer • Reasonable answer • Work backward

1. Mariah earned 43 ribbons from swim meets this month. Now she has 756 ribbons in all. How many ribbons did she have before this month? **713 ribbons**
   What strategy did you use? **work backward–sample answer**

2. Brad walks up 53 steps to get home. There are 211 steps to the top of his building. How many more steps would Brad have to walk up to get to the top floor? **158**
   What strategy did you use? **work backward–sample answer**

3. 12 oranges come in a carton. Nadia saw a sign that says each orange costs 48¢. About how much will a carton cost? **$6**
   What strategy did you use? **estimate answer–sample answer**

4. Blake has saved 612 papers since his first day of school. His sister has saved 48 papers so far. About how many more papers has Blake saved? **550 papers**
   What strategy did you use? **estimate answer–sample answer**

5. Mrs. Martinez bought groceries for $47. Then she bought pet food for $26. She thinks she spent about $100. Is this reasonable? **no**
   What strategy did you use? **reasonable answer**

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Name _____ Date _____

3–6

Homework Practice

Problem-Solving Investigation: Choose a Strategy

Use any strategy shown below to solve. Tell what strategy you used.

- Estimate or an exact answer
- Reasonable answer
- Work backward

1. Mark is buying apples. They are 99¢ per pound. He wants to buy 3 pounds. About how much will he spend on apples?

$1

sample answer: estimate or an exact answer

2. Gabriel has 15 baseballs. He used to have 53 baseballs but lost some when he moved. How many baseballs did he lose?

38 baseballs

sample answer: work backwards

3. Abbie has 287 beans on her plate. Her mother says she must eat until there are only 35 beans left. How many beans must Abbie eat?

252 beans

sample answer: estimate or an exact answer

Spiral Review

ALGEBRA Find each missing digit. (Lesson 3–5)

4. $42\boxed{1} - 156 = \boxed{2}65$

5. $224 - 1\boxed{6} = 58$

6. $5\boxed{4}6 - 321 = \boxed{2}25$

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Name _____ Date _____

3–6

Enrich

Problem-Solving Investigation: Choose a Strategy

There are four boys in the Branch family. The chart below shows how much money each boy earned each week for three weeks.

	Week 1	Week 2	Week 3	Week 4
Brad	$2	$6	$3	
Bart	$4	$3	$1	
Burt	$5	$2	$3	
Brent	$4	$5	$3	

Circle the statement that is reasonable.

1. Burt and Brad are comparing how much money they made over three weeks.
Burt said, "I made about $10 more than Brad."
Brad said, "We both made about the same amount of money."

Brad's statement should be circled.

Explain your thinking: **They both made about $12.**

2. Bart and Brent are thinking about how much money Brad made for weeks 2 and 3.
Bart said, "Brad made about $3 less in Week 3 than in Week 2."
Brent said, "Brad made about $2 less in Week 3 than in Week 2."

Bart's statement should be circled.

Explain your thinking: **See students' work.**

3. Brad and Brent plan to make the same amount of money in Week 4 that Brad made in Week 2. They are thinking about who will have made the most money after four weeks.
Brad says, "I will have made more money."
Brent says, "I will have made more money."

Brent's statement should be circled.

Explain your thinking: **See students' work.**

Answers

3–7

Name _____ Date _____

Reteach

Subtract Greater Numbers

Find 6,426 − 3,278.

Subtract the ones.
Regroup if necessary.
2 tens 6 ones = 1 ten 16 ones

Subtract the tens.
Regroup if necessary.
4 hundreds 1 ten = 3 hundreds 11 tens

Subtract the hundreds and thousands.

Thousands	Hundreds	Tens	Ones
		11	
	3	✗	16
6	~~4~~	~~2~~	~~6~~
− 3	2	7	8
3	1	4	8

Subtract. Check each answer.

1. 4,685 − 1,279 = **3,406**	**2.** $9,354 − $1953 = **$7,401**	**3.** 6,527 − 432 = **6,095**	**4.** 8,711 − 7,338 = **1,373**	**5.** 6,005 − 5,732 = **273**
6. $8,832 − $448 = **$8,384**	**7.** 4,213 − 2,999 = **1,214**	**8.** $9,595 − $1,396 = **$8,199**	**9.** 6,762 − 3,883 = **2,879**	**10.** 9,000 − 457 = **8,543**

11. 8,447 − 4,191 = **4,256**

12. $6,229 − $5,337 = **$892**

13. 8,674 − 482 = **8,192**

14. $1,373 − $998 = **$375**

15. 7,147 − 2,639 = **4,508**

16. 9,521 − 3,587 = **5,934**

17. 5,010 − 1,999 = **3,011**

18. 6,000 − 2,730 = **3,270**

19. $8,315 − $798 = **$7,517**

20. 7,040 − 655 = **6,385**

21. 4,000 − 1,432 = **2,568**

22. $3,208 − $625 = **$2,583**

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3–7

Name _____ Date _____

Skills Practice

Subtract Greater Numbers

Subtract. Check your answer.

1. 6,387 − 192 = **6,195**	**2.** $6,217 − $3,860 = **$2,357**	**3.** 9,817 − 2,087 = **7,730**	**4.** 1,754 − 382 = **1,372**	**5.** $3,498 − $2,567 = **$931**
6. 4,891 − 975 = **3,916**	**7.** $3,165 − $1,620 = **$1,545**	**8.** 9,315 − 4,928 = **4,387**	**9.** $4,046 − 2,995 = **$1,051**	**10.** 6,635 − 669 = **5,966**
11. 5,602 − 325 = **5,277**	**12.** $8,250 − $766 = **$7,484**	**13.** 3,426 − 2,839 = **587**	**14.** $5,163 − $3,886 = **$1,277**	**15.** 7,546 − 787 = **6,759**

16. 4,008 − 3,912 = **96**

17. $8,270 − $5,092 = **$3,178**

18. 5,123 − 987 = **4,136**

19. 7,654 − 6,666 = **988**

20. $4,325 − $998 = **$3,327**

21. 6,000 − 85 = **5,915**

22. 6,200 − 5,375 = **825**

23. $5,052 − $2,448 = **$2,604**

ALGEBRA Write + or − to make a true number sentence.

24. 8,734 (−) 4,292 = 4,442

25. 687 (+) 474 = 1,161

26. $8,132 (+) $983 = $9,115

27. 8,225 (−) 6,334 = 1,891

Solve.

28. On a parade float, there are 3,000 red roses and 1,850 white roses. How many more red roses are there?
1,150 more red roses

29. Of the 4,208 roses on another float, 680 were wilted. How many were not wilted?
3,528 roses

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3–7

Name _____ Date _____

Homework Practice

Subtract Greater Numbers

Subtract.

1. 1,816 − 429 = **1,387**

2. 3,659 − 2,485 = **1,174**

3. $4,718 − $1,962 = **$2,756**

4. 7,613 − 5,549 = **2,064**

5. 1,237 − 863 = **374**

6. 2,689 − 1,156 = **1,533**

7. $2,879 − $1,675 = **$1,204**

8. 3,466 − 2,132 = **1,334**

9. $4,768 − $3,021 = **$1,747**

10. $7,547 − $5,223 = **$2,324**

11. There are 5,280 feet in a mile. Chloe has already walked 1,753 feet. How much farther does she need to walk to complete a mile?

$3,527

12. Seth has 2,374 Legos to build with. He used 1,142 to build a car. How many Legos does he have left?

1,232

Spiral Review

Use any strategy shown below to solve. Tell what strategy you used. (Lesson 3–6)

13. 15 friends were playing at the park. 2 left to go to soccer practice. 4 left to go home. And 3 more left to go to the library. How many friends are left at the park?

6 **Strategy: Use the four-step plan**

14. Seth's bus brings 37 kids to school. The next bus brings 42. If 118 kids come to school by bus, how many are on the third bus?

39 **Strategy: Reasonable answers**

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3–7

Name _____ Date _____

Problem-Solving Practice

Subtract Greater Numbers

Solve.

1. A library has 2,220 books about sports and 1,814 books about animals. How many more sports books are there than animal books?

406 more books

2. At the book sale, Sharika paid for a book with a $5-bill. She got back $3 in change. What was the price of the book?

$ **2**

3. In the 2007 NFL season, one receiver rushed for 1,509 yards. Another receiver rushed for 1,139 yards, and a running back rushed for 1,435 yards. How many more yards were rushed by the first receiver than the running back?

74 more yards

4. Pittsburgh University won the college football championship in 1937. They won again in 1976. How many years were there between championships?

39 years

5. Jeff bought five tickets to a baseball game. Each ticket cost $12. He paid with $75. How much change should he get back?

$ **15**

6. The baseball stadium has 48,500 seats. One week before the game there were still 9,956 seats left. The day of the game there were 4,089 seats left. How many seats were sold during the week before the game?

5,867 seats

How many seats were sold by the day of the game?

44,411 seats

Answers

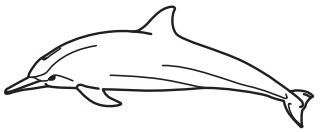
3–7

Name _____ Date _____

Enrich

What Do They Weigh?

Sand and Sea Park is checking the weight of its animals. The chart shows which animals they have. It also shows which ones they have weighed and how many pounds each weighs. The walrus and sea lion have not been weighed. Answer the questions and complete the chart.



Animal	dolphin	harbor seal	killer whale	polar bear	walrus	sea lion
Weight	573	375	8,356	1,342	_____	_____

1. The walrus weighs 5,619 pounds less than the killer whale. How much does it weigh?
   2,737 pounds
2. The sea lion weighs 610 pounds less than the polar bear. How much does it weigh?
   732 pounds
3. What is the difference in weight between the animal that weighs the least and the animal that weighs the most?
   7,981 pounds
4. What is the difference in weight between the sea lion and the walrus?
   2,005 pounds
5. How much more does the sea lion weigh than the dolphin?
   159 pounds

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3–8

Name _____ Date _____

Reteach

Subtract Across Zeros

You can use place-value charts to help you regroup across zeros.

Find 305 − 176.

Step 1
Subtract the ones.
No tens to regroup.
Regroup the hundreds.

Hundreds	Tens	Ones
2	10	
~~3~~	~~0~~	5
− 1	7	6

Step 2
Regroup the tens.

Hundreds	Tens	Ones
	9	
2	~~10~~	15
~~3~~	~~0~~	~~5~~
− 1	7	6

Step 3
Subtract the ones, tens, and hundreds.

Hundreds	Tens	Ones
	9	
2	~~10~~	15
~~3~~	~~0~~	~~5~~
− 1	7	6
1	2	9

Subtract. Check your answer.

1. 106 − 28 = **78**	**2.** $503 − $167 = **$336**	**3.** 405 − 218 = **187**	**4.** $601 − $378 = **$223**	**5.** 200 − 145 = **55**
6. 205 − 92 = **113**	**7.** 308 − 175 = **133**	**8.** 300 − 56 = **244**	**9.** $505 − $90 = **$415**	**10.** 802 − 132 = **670**

11. 500 − 418 = **82**
12. $206 − $138 = **$68**
13. 801 − 482 = **319**
14. 100 − 33 = **67**
15. 607 − 527 = **80**
16. $700 − $19 = **$681**
17. $902 − $863 = **$39**
18. 400 − 189 = **211**

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3–8

Name _____ Date _____

Skills Practice

Subtract Across Zeros

Subtract. Check your answer.

1. 503 − 82 = **421**	**2.** $607 − $238 = **$369**	**3.** 730 − 467 = **263**	**4.** 901 − 719 = **182**	**5.** $309 − $223 = **$86**
6. 208 − 75 = **133**	**7.** 305 − 161 = **144**	**8.** 400 − 286 = **114**	**9.** 504 − 316 = **188**	**10.** $700 − $199 = **$501**

11. 103 − 45 = **58**

12. $901 − $333 = **$568**

13. 800 − 65 = **735**

14. 702 − 618 = **84**

15. 205 − 74 = **131**

16. 700 − 412 = **288**

17. 607 − 31 = **576**

18. 800 − 433 = **367**

ALGEBRA Use the rule to find the difference.

19.

Rule: Subtract 37	
Input	Output
200	**163**
150	**113**
600	**563**

20.

Rule: Subtract 239	
Input	Output
500	**261**
900	**661**
800	**561**

21.

Rule: Subtract 89	
Input	Output
202	**113**
707	**618**
808	**719**

Solve.

22. A bag holds 300 seeds. Brandon plants 79 of the seeds. How many seeds are left?

221 seeds

23. A book about gardening has 504 pages. Amy has read 245 pages so far. How many more pages does she have left to read?

259 pages

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3–8

Name _____ Date _____

Homework Practice

Subtract Across Zeros

Subtract. Check your answer.

1. 100 − 27 = **73**	**2.** 301 − 172 = **129**	**3.** 500 − 165 = **335**	**4.** 702 − 234 = **468**

5. $400 − $138 = **$262**

6. $600 − $422 = **$178**

7. $702 − $375 = **$327**

8. 301 − 28 = **273**

9. 200 − 143 = **57**

10. 803 − 336 = **467**

11. 100 of the third-graders wear backpacks to school. 67 of the second-graders wear backpacks to school. How many more third-graders wear backpacks? **33 third graders**

12. Kayla has $100. She buys a CD player for $87. How much money does she have now? **$13**

Spiral Review

Subtract. (Lesson 3–7)

13. 1,426 − 389 = **1,037**	**14.** 2,255 − 1,343 = **912**	**15.** $3,678 − $1,836 = **$1,842**	**16.** $5,491 − $1,762 = **$3,729**

17. Morgan has a high score of 9,875 on her favorite game. Her brother can score 6,548. What is the difference between their scores?

3,327 points

Answers

3–8

Name _____ Date _____

Problem-Solving Practice

Subtract Across Zeros

Solve.

1. The best bowler in the Junior Bowler's League scored 150 points. Jason scored 125 points. How many points higher did the best bowler score than Jason?

   25 points higher

2. There are 70 bowlers in the league this year. There were only 54 bowlers last year. How many more bowlers joined the league this year?

   16 more bowlers

Votes for School President	
Candidate	Number of Votes
Ariana	200
Miguel	147
Tyrone	171

Use the chart to solve.

3. How many more votes did the winner get than Miguel?

   53 more votes

4. How many more votes did Tyrone need to win the election?

   30 more votes

Solve.

5. Harrison and Jordan played 3 computer games. Jordan scored 124 points in the first game and 268 points in the second game. Harrison scored a total of 600 points for all 3 games. How many points does Jordan need in the third game to beat Harrison's score?

   209 points

6. Keisha is saving money for a new computer that costs $480. She has saved $175. She found a coupon for $50 off the price of the computer. How much more money does Keisha need to save to buy the computer?

   $ **255** more

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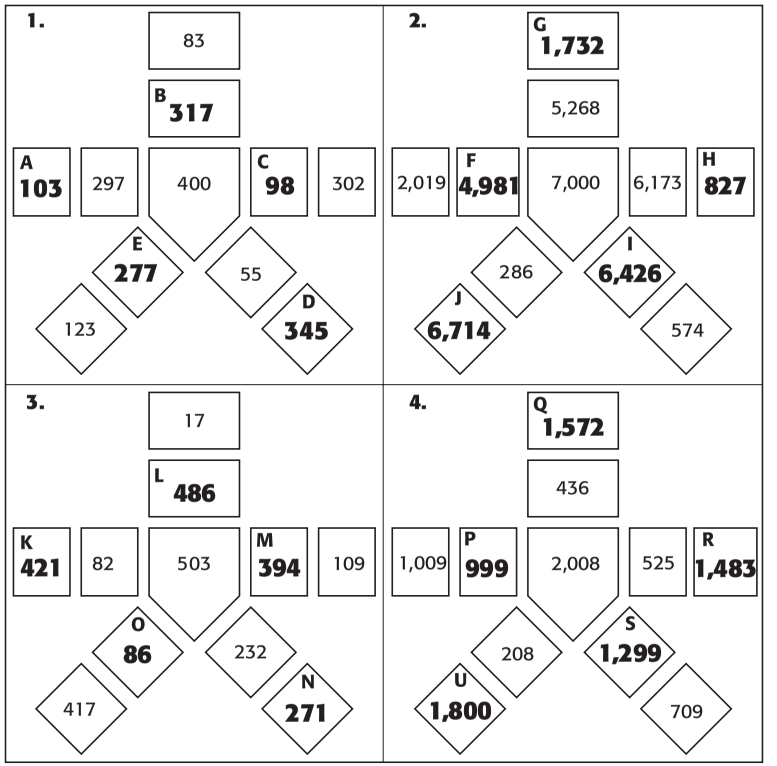
3–8

Name _____ Date _____

Enrich

Subtraction Pinwheels

Find the missing numbers in each subtraction pinwheel. Remember to regroup when subtracting across zeros.



5. Match the difference with a number shown under the lines below. Write the letter of the difference from the box on the line to write a mystery message.

r	e	g	r	o	u	p
1,483	277	1,732	1,483	86	1,800	999

Answers (Lesson 3–8)

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Name _____ Date _____

Reteach

Select Addition or Subtraction

How do you decide if you should add or subtract? Looking for key words in a problem can help you decide.

The following words help you know that you should **add:**

in all *altogether* *total* *sum*

The following words help you know that you should **subtract:**

how many more *difference* *how many left*

The classroom has 27 desks. There are 23 students sitting at the desks. How many desks are left?

The words how many left tell you that you should subtract: 27 – 23 = 4. There are 4 desks left.

Underline the words that tell you if you should add or subtract. Select addition or subtraction to solve.

1. Dustin read 23 pages. There are 91 pages in the book. How many more pages must Dustin read to finish the book?

   how many more; 68 pages

2. Gina has 315 stickers. Tara has 219. How many stickers do Gina and Tara have altogether?

   altogether; 534 stickers

3. Austin walked his dog for 17 minutes in the morning and 19 minutes in the evening. How many total minutes did he walk his dog?

   total; 36 minutes

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3–9

Name _____ Date _____

Skills Practice

Select Addition or Subtraction

Select addition or subtraction and solve.

1. A black spruce tree is 32 feet tall. An Engelmann pine tree is 110 feet tall. How much taller is the Engelmann pine than the black spruce?

   78 feet taller

2. A live oak tree is 48 feet tall. A California white oak tree is 42 feet taller. How tall is the California white oak?

   90 feet

3. The garden club raises $123 for a community garden. The club spends $78 on supplies. How much money does the garden club have left?

   $45

4. Nadia's garden has a length of 45 feet and a width of 32 feet. How much longer is the length than the width?

   13 feet

Solve.

5. Joey plants 15 pumpkin seeds, 21 squash seeds, and 13 tomato seeds in his gaden. How many seeds does Joey plant altogether?

   49 seeds

6. A maple tree's leaves change color in the fall. Suppose a maple tree has 309 leaves. 171 turn red, 57 turn orange, and the rest of the leaves turn brown. How many leaves turn brown?

   81 leaves

Answers

3–9

Name _____ Date _____

Homework Practice

Select Addition or Subtraction

Select addition or subtraction and solve.

1. Luis needs 4 blue marbles, 8 striped marbles, 12 green marbles, and 18 red marbles for his game. How many marbles does he need in all?

42 marbles

2. Shelby made 15 bracelets. Her mother made 43. How many more bracelets did Shelby's mother make?

28 bracelets

The table shows the favorite sports of third graders at Sam's school.

Favorite Sports	
Lacrosse	28
Soccer	85
Football	35
Volleyball	21
Basketball	87

3. What is the sum of the votes?

256 votes

4. How many more students voted for basketball and volleyball than for lacrosse and football?

45 votes

Spiral Review

Estimate. Then subtract. Check for reasonableness. (Lesson 3-8)

5. 200 − 43 = **157**

6. 302 − 166 = **136**

7. 400 − 248 = **152**

8. 601 − 526 = **75**

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3–9

Name _____ Date _____

Problem-Solving Practice

Select Addition or Subtraction

Select addition or subtraction to solve.

1. Robert is 47 inches tall. His older brother Randy is 65 inches tall. How much taller is Randy than Robert?

18 inches taller

2. Robert weighs 52 pounds. Randy weighs 68 pounds more than Robert. How much does Randy weigh?

120 pounds

3. A new house has 1,252 square feet of floor space. The owner plans to cover 590 square feet with carpeting and the rest with hardwood. How many square feet of hardwood will the owner need?

662 square feet

4. Jill raised $315 for a charity walk. Steph raised $278. How much money did Jill and Steph raise in all?

$593

5. Heather and Aaron each bought a set of markers. Heather paid $3 for her set. Aaron paid with a $5-bill. He got back $7 in change. How much more were Heather's markers than Aaron's?

$ **1** more

6. There are 500 sheets of art paper in a pack. The pack has 125 white sheets, 135 black sheets, and 115 yellow sheets. The rest of the sheets are red. How many red sheets of art paper are in the pack?

125 red sheets

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3–9

Name _____ Date _____

Enrich

Choose a Sign

Fill in the missing signs. Write + or − in the box. Write =, <, or > in the circle to make the following number sentences true.

1. 9 ☐ 5 + 3 ◯ 9 − 4 **− or +; >**

2. 4, 925 ◯ 1,679 ☐ 245 **>, + or −**

3. 3 s + 2 s ◯ 1 **<**

answers may be either + and > or − and <

4. 100 ☐ the number days in a week ◯ 94

5. 18 ☐ 27 ☐ 36 ◯ 72 ☐ 9 **several possible answers: +, +, =, +; or +, +, >, −; or +, −, <; + (or −)**

6. 456 ☐ 25 ◯ 25 ☐ 456 **+, =, + or −, <, +**

7. 8,005 ☐ 5008 ◯ 2,997 **several possible answers: +, >; or −, =**

8. 87 rounded ☐ 58 rounded is ◯ 140.

Write a number sentence to show how you rounded to make the number sentence true.

Answers will vary depending how students round and if they choose < or >; Possible answers are 90 + 60 > 140; 80 + 50 < 140; 90 − 60 < 140; 80 − 50 < 140.

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3

Name _____ Date _____

Vocabulary Test

Match each word to its definition. Write your answers on the lines provided.

1. difference **B**
2. regroup **C**
3. subtraction **E**
4. compatible numbers **D**
5. estimate **A**

A. a number close to an exact value

B. the answer in a subtraction problem

C. to take apart a number to write it in a new way

D. numbers that are easy to use together when estimating

E. an operation that tells the difference, when some or all are taken away

Fill in the blank for each of the following questions.

7. When you are completing a subtraction problem, the answer is known as the _____. 7. **difference**

8. 15 ones = 1 ten 5 ones. This is the correct way to _____. 8. **regroup**

9. 400 − 106 (change to 400 − 100) is about 300. This is an example of _____. 9. **compatible numbers**

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Answers (Lesson 3–9 and Vocabulary Test)

Answers

3

Name _____ Date _____

Oral Assessment

Arrange a selection of pencils, crayons, and paper. Include six of each. Line up the objects in rows on a table.

Read each question aloud to the student. Then write the student's answers on the lines below the question.

1. How many objects do we have?

18 objects

2. If I take away these six objects and these three objects, how many objects will I have left?

9 objects

3. How many will I have if I take away two more objects?

7 objects

4. Tell how you got your answer.

See students' work.

5. Let's line up six pencils and four crayons. How many more pencils than crayons do we have?

2 more

6. Tell how you got your answer.

See students' work.

3

Name _____ Date _____

Oral Assessment *(continued)*

7. If I have $4 and buy a can of juice for $1, how much money do I have left?

$3

8. Tell how you got your answer.

See students' work.

9. If my bean plant is 12 inches tall and my sunflower plant is 7 inches tall, how much taller is my bean plant?

5 inches

10. Tell how you got your answer.

See students' work.

11. If a large box of cereal is $4 and a small box is $2, about how much less does the small box of cereal cost?

$2

12. Do we need an exact answer or an estimate answer?

estimate answer

13. How can you tell?

The question asks "about how much."

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Chapter 3 Assessment Answer Key

Chapter Diagnostic Test
Page 54

1. 9
2. 8
3. 9
4. 50
5. 90
6. 70
7. 30
8. 80
9. 400
10. 300
11. 500
12. 600
13. 10
14. 30
15. 60
16. 30
17. $2

Chapter Pretest
Page 55

1. 28
2. 20
3. 89
4. $38
5. $217
6. $24
7. $20
8. $100
9. $400
10. 596
11. 325
12. $3,747
13. 5,056

Quiz 1 *(3–1 through 3–3)*
Page 56

1. 23
2. 16
3. $262
4. $156
5. 70
6. 250
7. 50
8. 530
9. 350
10. 130
11. 200 books
12. $5

Answers

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Chapter 3 Assessment Answer Key

Quiz 2 *(3–4 through 3–6)*
Page 57

1. $87
2. $46
3. $28
4. $66
5. $1
6. $538
7. Yes; 550 − 157 = 393, which is close to 400.
8. 50; estimate
9. 417 tickets; exact answer

Quiz 3 *(3–7 through 3–9)*
Page 58

1. 1,133
2. $1,377
3. 559
4. $2,596
5. 171
6. 6,722
7. 1,863
8. 809
9. $2,596
10. 100 students
11. 123 blueberries
12. 5 inches

Mid-Chapter Test
Page 59

1. A
2. J
3. C
5. 15
6. 43¢
7. $256
8. 60
9. 10
10. 220
11. Yes; 57 − 38 = 19. 19 is close to 20.

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Chapter 3 Assessment Answer Key

Chapter Test, Form 1

Page 65

1. B
2. H
3. C
4. H
5. B
6. H
7. D
8. J

Page 66

9. D
10. H
11. D
12. G

Chapter Test, Form 2A

Page 67

1. B
2. F
3. D
4. H
5. A
6. G
7. D
8. H

(*continued on the next page*)

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Chapter 3 Assessment Answer Key

Chapter Test, Form 2A (*continued*)

Page 68

9. D

10. H

11. D

12. G

Chapter Test, Form 2B

Page 69

1. C

2. H

3. A

4. G

5. C

6. G

7. C

Page 70

8. H

9. C

10. H

11. B

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Chapter 3 Assessment Answer Key

Chapter Test, Form 2C
Page 71

1. $309
2. 202
3. 21
4. 242
5. $157
6. 40
7. 30
8. $3,600
9. 650
10. $1,883
11. 4,029
12. $1,639

Page 72

13. 657
14. 5,909
15. 19 lemon bars
16. yes; $5 + $3 < $5 + $5
17. about 160 people
18. 181 pages
19. 50¢ − 40¢ = 10¢
20. 65¢

Chapter Test, Form 2D
Page 73

1. $309
2. 202
3. 21
4. 242
5. $157
6. 40
7. 30
8. $3,600
9. 650
10. $1,639
11. 4,029
12. $1,883

(*continued on the next page*)

Answers

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Chapter 3 Assessment Answer Key

Chapter Test, Form 2D (*continued*)

Page 74

13. 29 cookies

14. yes; $5 + $2 < $5 + $5

15. about 200 people

16. 188 pages

17. 50¢ - 30¢ = 20¢

18. 65¢

Chapter Test, Form 3

Page 75

1. 21
2. 242
3. $309
4. 202
5. $157
6. 40
7. 30
8. 650
9. $3,600
10. $1,639
11. 657
12. $1,883
13. 4,029
14. 5,909

Page 76

15. 274 people

16. 29 lemon bars

17. $58

18. yes; $6 + $2 < $5 + $5

19. 188 pages

20. 25¢ − 10¢ = 55¢

21. 65¢

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Chapter 3 Assessment Answer Key

Page 77, Chapter Extended-Response Test
Scoring Rubric

Level	Specific Criteria
4	The student demonstrates a ***thorough understanding*** of the mathematics concepts and/or procedures embodied in the task. The student has responded correctly to the task, used mathematically sound procedures, and provided clear and complete explanations and interpretations. The response may contain minor flaws that do not detract from the demonstration of a thorough understanding.
3	The student demonstrates an ***understanding*** of the mathematics concepts and/or procedures embodied in the task. The student's response to the task is essentially correct with the mathematical procedures used and the explanations and interpretations provided demonstrating an essential but less than thorough understanding. The response may contain minor errors that reflect inattentive execution of the mathematical procedures or indications of some misunderstanding of the underlying mathematics concepts and/or procedures.
2	The student has demonstrated only a ***partial understanding*** of the mathematics concepts and/or procedures embodied in the task. Although the student may have used the correct approach to obtaining a solution or may have provided a correct solution, the student's work lacks an essential understanding of the underlying mathematical concepts. The response contains errors related to misunderstanding important aspects of the task, misuse of mathematical procedures, or faulty interpretations of results.
1	The student has demonstrated a ***very limited understanding*** of the mathematics concepts and/or procedures embodied in the task. The student's response to the task is incomplete and exhibits many flaws. Although the student has addressed some of the conditions of the task, the student reached an inadequate conclusion and/or provided reasoning that was faulty or incomplete. The response exhibits many errors or may be incomplete.
0	The student has provided a ***completely incorrect*** solution or uninterpretable response, or no response at all.

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Chapter 3 Assessment Answer Key

Page 77, Chapter Extended-Response Test
Sample Answers

In addition to the scoring rubric found on page A32, the following sample answers may be used as guidance in evaluating open-ended assessment items.

1. a. Subtraction is when you subtract one number from another.

b. Subtraction without regrouping is when you subtract the ones. Subtraction with regrouping is when you subtract and there are not enough ones to subtract from so you need to regroup.

c. You subtract money just like you subtract whole numbers. For example: $\$2 - \$1$ is the same as $2 - 1$.

2. a. The three different methods of estimation include estimation using rounding, estimation using compatible numbers.

b. Rounding is most likely to give you an estimate that is farthest from the actual answer because you round the first number and change the rest to zeros. For example, if you have the number 267 and change the number to 300 for estimating, you are 33 away from the real number.

c. Sample problem: Melissa makes $28 a week babysitting. Daniel makes $36 dollars a week cutting grass. About how much more does Daniel make in a week than Melissa?
Answer: About $10 more.

3. a. It costs $2 more to get a turkey sub than a fruit salad.

b. It will cost $6 to get an apple, a milk and a salad.

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Chapter 3 Assessment Answer Key

Cumulative Chapter Test Practice Chapters 1–3

Page 78

1. B

2. F

Page 79

3. D

4. H

5. A

6. F

7. C

8. F

Page 80

9. C

10. J

11. $292

12. 42 signs

13. 4,498

14. $2,950

15. 400

16. 4

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